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Electronic Number Lock

Interactive Entertainment Network System

VHDL Modelling of a Bit Slice Arithmetic Logic Unit

Telephone Router

Traffic Light Control System

Service Channel Terminating Unit for 2GHz Digital Microwave System

Analog To Digital Converter

SPEEDES Qheap

Payroll System

Homeopathic Management System

Float cum Boost Charger

Microwave Bandpass Filter

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Microcontrollers

Personal Entertainment Network Systems

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Web based Applications for Insurance Services

Pharmacy Management System

Microcontroller Based Cellular Voting Machine

Inventory Management System

Manual Eprom Programmer Cum Verifier

Parent Record Keeping and Billing

Appliances Security Controller using Power Line

## Martyr2's Mega Project List

Created by Martyr2 (DIC Mentor)

Over the past couple years I have seen many threads asking about project ideas. I have seen a few answers, and given a few answers, that listed a couple common projects. I never felt it was a good enough job to just list 2 or 3 topics. So I have set forth on a mission to compile a list of projects (common and not) for all you programmers out there in search of a simple learning project. No these are not going to be thesis level projects and are meant to also spark ideas for ways to expand from these ideas.

Below you will find 150 project ideas I have come up with just brainstorming. I have divided them into 10 different topic areas that I think the project may use the most. Keep in mind that a few of these projects could have been classified in more than one topic.

So I hope you enjoy and here they are!

Numbers

Find PI to the Nth Digit – Enter a number and have the program generate PI up to that many decimal places. Keep a limit to how far the program will go.

Fibonacci Sequence – Enter a number and have the program generate the Fibonacci sequence to that number or to the Nth number.

Prime Factorization – Have the user enter a number and find all Prime Factors (if there are any) and display them.

Next Prime Number – Have the program find prime numbers until the user chooses to stop the asking for the next one.

Find Cost of Tile to Cover W x H Floor – Calculate the total cost of tile it would take to cover a floor plan of width and height, using a cost entered by the user.

Mortgage Calculator – Calculate the monthly payments of a fixed term mortgage over given Nth terms at a given interest rate. Also figure out how long it will take the user to pay back the loan.

Change Return Program – The user enters a cost and then the amount of money given. The program will figure out the change and the number of quarters, dimes, nickels, pennies needed for the change.

Binary to Decimal and Back Converter – Converter to convert a decimal number to binary or a binary number to its decimal equivalent.

Calculator – A simple calculator to do basic operators. Make it a scientific calculator for added complexity.

Unit Converter (temp, currency, volume, mass and more) – Converts various units between one another. The user enters the type of unit being entered, the type of unit they want to convert to and then the value. The program will then make the conversion.

Alarm Clock – A simple clock where it plays a sound after X number of minutes/seconds or at a particular time.

Distance Between Two Cities – Calculates the distance between two cities and allows the user to specify a unit of distance. This program may require finding coordinates of the cities like latitude and longitude.

Credit Card Validator – Takes in a credit card number of a common credit card vendor (Visa, MasterCard, American Express, Discoverer) and validates it to make sure that it is a valid number (look into how credit cards use a checksum).

Tax Calculator – Asks the user to enter a cost and either a country or state tax. It then returns the tax plus the total cost with tax.

Dijkstra's Algorithm – Create a program that finds the shortest path through a graph using its edges.

Text

Reverse a String – Enter a string and the program will reverse it and print it out.

Pig Latin – Pig Latin is a game of alterations played on the English language game. To form the Pig Latin form of an English word the initial consonant sound is transposed to the end of the word and an ay is affixed (Ex.: "banana" would yield anana-bay). Read Wikipedia for more information on rules.

Count Vowels – Enter a string and the program counts the number of vowels in the text. For added complexity have it report a sum of each vowel found.

Check if Palindrome – Checks if the string entered by the user is a palindrome. That is that it reads the same forwards as backwards like “racecar”

Count Words in a String – Counts the number of individual words in a string. For added complexity read these strings in from a text file and generate a summary.

Text Editor – Notepad style application that can open, edit, and save text documents. Add syntax highlighting and other features.

RSS Feed Creator – A program which can read in text from other sources and put it in RSS or Atom news format for syndication.

Post it Notes Program – A program where you can add text reminders and post them. You can have the program also add popup reminders.

Quote Tracker (market symbols etc) – A program which can go out and check the current value of stocks for a list of symbols entered by the user. The user can set how often the stocks are checked and the program can show green up and red down arrows to show which direction the stock value has moved.

Guestbook / Journal – A simple application that can be for online that can allow people to add comments or write journal entries. It can allow comments or not and timestamps all entries. Could also be made into a shout box.

News Ticker and Game Scores – A program which sits on your desktop and aggregates news and game scores from various sources on the net and scrolls them across the screen on regular intervals.

Fortune Teller (Horoscope) – A program that checks your horoscope on various astrology sites and puts them together for you each day.

Vigenere / Vernam / Ceasar Ciphers – Functions for encrypting and decrypting data messages. Then send them to a friend.

Random Gift Suggestions – Enter various gifts for certain people when you think of them and when its time to give them a gift (xmas, birthday, anniversary) it will randomly pick one and perhaps places you can get it.

Text to HTML Generator – Converts text files into web HTML files and stylizes them. Great for making online documentation of standard text documentation.

CD Key Generator – Generates a unique key for your applications to use based on some arbitrary algorithm that you can specify. Great for software developers looking to make shareware that can be activated.

Regex Query Tool – A tool that allows the user to enter a text string and then in a separate control enter a regex pattern. It will then run the regular expression against the source text and return any matches or flag errors in the regular expression.

## Networking

FTP Program – A file transfer program which can transfer files back and forth from a remote web sever.

Get Atomic Time from Internet Clock – This program will get the true atomic time from an atomic time clock on the internet. There are various clocks across the world. Do a search for a list of them.

Chat Application (IRC or MSN Style) – Create a chat application that can carry on simple chat rooms like on Internet Relay Chat or a more direct chatting style like MSN. For added complexity, create your own protocol to facilitate this chatting.

Fetch Current Weather – Get the current weather for a given zip/postal code.

P2P File Sharing App – Create a program like LimeWire, FrostWire, Bearshare, or a torrent style application.

Port Scanner – Enter an IP address and a port range where the program will then attempt to find open ports on the given computer by connecting to each of them. On any successful connections mark the port as open.

Mail Checker (POP3 / IMAP) – The user enters various account information include web server and IP, protocol type (POP3 or IMAP) and the application will check for email on several accounts at a given interval.

Packet Sniffer – A utility program that will read packets coming in and out of the machine along with related information like destination and payload size.

Country from IP Lookup – Enter an IP address and find the country that IP is registered in.

Whois Search Tool – Enter an IP or host address and have it look it up through whois and return the results to you.

Zip / Postal Code Lookup – Enter a zip or postal code and have it return which city/cities that are in that zip code.

Remote Login – Create a remote desktop style application which can see and control the remote computer (given you have permissions). It may require the use of your own private network and a second computer to test with.

Site Checker with Time Scheduling – An application that attempts to connect to a website or server every so many minutes or a given time and check if it is up. If it is down, it will notify you by email or by posting a notice on screen.

Small Web Server – A simple web server that can serve HTML files that contain Javascript and other forms of non-code executing code. Added complexity would be to try and implement streaming video, create a server-side language, or serve up other stream types.

Web Bot – An automated program which carries out tasks on the web including checking websites, page scraping, and summarization of data or web posting.

## Classes

Product Inventory Project – Create an application which manages an inventory of products. Create a product class which has a price, id, and quantity on hand. Then create an inventory class which keeps track of various products and can sum up the inventory value.

Movie Store – Manage video rentals and controls when videos are checked out, due to return, overdue fees and for added complexity create a summary of those accounts which are overdue for contact.

Airline / Hotel Reservation System – Create a reservation system which books airline seats or hotel rooms charging various rates for particular sections of the plane or hotel. Example, first class is going to cost more than coach. Hotel rooms

have penthouse suites which cost more. Keep track of when rooms will be available and can be scheduled.

Student Grade Book Application – Keep track of students (with a student class that has their name, average, and scores) in a class and their grades. Assign their scores on tests and assignments to the students and figure out their average and grade for the class. For added complexity put the students on a bell curve.

Bank Account Manager - Create a class called “Account” which will be an abstract class for three other classes called “CheckingAccount”, “SavingsAccount” and “BusinessAccount”. Manage credits and debits from these accounts through an ATM style program.

Library Catalog – Create a book class with a title, page count, ISBN and whether or not it is checked out or not. Manage a collection of various books and allow the user to check out books or return books. For added complexity generate a report of those books overdue and any fees. Also allow users to put books on reserve.

Patient / Doctor Scheduler – Create a patient class and a doctor class. Have a doctor that can handle multiple patients and setup a scheduling program where a doctor can only handle 16 patients during an 8 hr work day.

Recipe Creator and Manager – Create a recipe class with ingredients and a put them in a recipe manager program that organizes them into categories like deserts, main courses or by ingredients like chicken, beef, soups, pies etc.

Image Gallery – Create an image abstract class and then a class that inherits from it for each image type. Put them in a program which displays them in a gallery style format for viewing.

Class to Handle Large Numbers – We know that the basic data types like integer, long, double, and floats only go so far. Create a class that can manage extremely large numbers like those used in space exploration.

Chart Making Class / API – Create a class, or a set of classes, that generates bar charts, pie charts, histograms, and scatter plot charts. For added complexity, make this a service where people can connect to a web server, supply information and it returns a chart image for them in gif or jpg format.

Shape Area and Perimeter Classes – Create an abstract class called “Shape” and then inherit from it other shapes like diamond, rectangle, circle, triangle etc. Then have each class override the area and perimeter functionality to handle each shape type.

Matrix Class – A class to manage matrices. Add, subtract and multiple matrices.

Flower Shop Ordering To Go – Create a flower shop application which deals in flower objects and use those flower objects in a bouquet object which can then be sold. Keep track of the number of objects and when you may need to order more.

Vending Machine – Create an application which takes money and dispenses various types of candy or other item. The user enters a number and letter sequence, like D9, and have it return an instance of “Item” which of the proper type. Example

when they press D9 it will return a type of candy bar which is an instance of Mr GoodBar.

Josephus Problem – Create a program which links together various node objects and then every Nth object is removed until you have one object left. This last object is the sole survivor. Look it up on Google under “Josephus Algorithm”

Family Tree Creator – Create a class called “Person” which will have a name, when they were born and when (and if) they died. Allow the user to create these Person classes and put them into a family tree structure. Print out the tree to the screen.

## Threading

Create Progress Bar of Download – Create a progress bar for applications that can keep track of a download in progress. The progress bar will be on a separate thread and will communicate with the main thread using delegates.

Download Manager – Allow your program to download various files and each one is downloading in the background on a separate thread. The main thread will keep track of the other thread’s progress and notify the user when downloads are completed.

Chat Application (remoting style) – Create a chat application which allows you to connect directly to another computer by their IP through the use of remoting and allow your “server” application handle multiple incoming connections.

Bulk Thumbnail Creator – Picture processing can take a bit of time for some transformations. Especially if the image is large. Create an image program which can take hundreds of images and convert them to a specified size in the background thread while you do other things. For added complexity, have one thread handling resizing, have another bulk renaming of thumbnails etc.

## Web

WYSIWYG (What you see is what you get) Editor – Create an editor online which allows people to move around elements, create tables, write text, set colors etc for web pages without having to know HTML. Think Dreamweaver or FrontPage but for online sites. If you need an example check out the DIC page used to create a post.

Web Browser with Tabs – Create a small web browser that allows you to navigate the web and contains tabs which can be used to navigate to multiple web pages at once. For simplicity don't worry about executing Javascript or other client side code.

Page Scraper – Create an application which connects to a site and pulls out all links or images and saves them to a list. For added complexity, organize the indexed content and don't allow duplicates. Have it put the results into an easily searchable index file.

File Downloader – An application which can download various objects on a page including video streams or all files on a page. Great for pages with a lot of download links.

Telnet Application – Create an application which can telnet into servers across the internet and run basic commands.

Online White Board – Create an application which allows you and friends to collaborate on a white board online. Draw pictures, write notes and use various colors to flesh out ideas for projects. For added complexity try building in picture tubes.

Bandwidth Monitor – A small utility program that tracks how much data you have uploaded and downloaded from the net during the course of your current online session. See if you can find out what periods of the day you use more and less and generate a report or graph that shows it.

Bookmark Collector and Sorter – An application that you can put online for people to upload bookmarks to, have it sort them, remove duplicates and export the entire list as a Firefox/IE/Safari bookmark file. For added complexity see if you can group the bookmark items into various folders.

Password Safe – A program which keeps track of passwords for sites or applications and encrypts them with a key so that no one can read them.

Media Player Widget for iGoogle – Create an iGoogle gadget which can play various song lists from your computer as well as share one song daily. Perhaps let people look up which songs you have listened to lately.

**Text Based Game Like Utopia** – Create a simple text based RPG like Utopia where you can create a civilization, gather resources, forge alliances, cast spells and more on a turn based system. See if you can dominate the kingdom.

**Scheduled Auto Login and Action** – Make an application which logs into a given site on a schedule and invokes a certain action and then logs out. This can be useful for checking web mail, posting regular content, or getting info for other applications and saving it to your computer.

**E-Card Generator** – Make a site that allows people to generate their own little e-cards and send them to other people. Can use flash or not. Use a picture library and perhaps insightful mottos or quotes.

**Content Management System** – Create a content management system (CMS) like Joomla, Drupal, PHP Nuke etc. Start small and allow for the addition of modules/addons later.

**Template Maker** – Make a site or application which allows the user to enter in various color codes, elements, dimensions and constructs a template file for a particular application like PHPBB, Invision Board, MySpace, Bebo, etc.

**CAPTCHA Maker** – Ever see those images with letters a numbers when you signup for a service and then asks you to enter what you see? It keeps web bots from automatically signing up and spamming. Try creating one yourself for online forms. If you use PHP, take a look at the image functions of GD.

## Files

Quiz Maker – Make an application which takes various questions from a file, picked randomly, and puts together a quiz for students. Each quiz can be different and then reads a key to grade the quizzes.

Quick Launcher – A utility program that allows the user to assign various programs to icons on a toolbar. Then by clicking the buttons they can quickly launch the programs with parameters etc. Much like Windows quick launch.

File Explorer – Create your own windows explorer program but with added features, better searching, new icons and other views.

Sort File Records Utility – Reads a file of records, sorts them, and then writes them back to the file. Allow the user to choose various sort style and sorting based on a particular field.

Add Transactions In File and Find Averages – Read in a file of financial transactions, group them into accounts, add up fields or find averages or apply credits and debits to each account.

Create Zip File Maker – The user enters various files from different directories and maybe even another computer on the network and the program transfers them and zips them up into a zip file. For added complexity, apply actual compression to the files.

PDF Generator – An application which can read in a text file, html file or some other file and generates a PDF file out of it. Great for a web based service where the user uploads the file and the program returns a PDF of the file.

Bulk Renamer and Organizer – This program will take a series of files and renames them with a specific filename filter entered by the user. For instance if the user enters myimage###.jpg it will rename all files with a “minimum” of three numbers like “myimage001.jpg”, “myimage145.jpg” or even “myimage1987.jpg” since 1987 has at least three numbers.

Mp3 Tagger – Modify and add ID3v1 tags to MP3 files. See if you can also add in the album art into the MP3 file’s header as well as other ID3v2 tags.

Log File Maker – Make an application which logs various statistics in response to given events. This can be something that logs what an application does, what the system is doing, when something like a file changes etc.

Excel Spreadsheet Exporter – Create an online application which can read in a file and create an Excel Spreadsheet to export back. This can be through CVS or other file formats. For added complexity, see if you can create formula fields as well.

RPG Character Stat Creator – Make a program which will randomly create a character’s stats based on several rules set forth by the user. Have it generate a class, gender, strength/magic/dexterity points, and extra abilities or trades. Have it save it to a file which can then be printed out by a dungeon master.

Image Map Generator – Image maps are those images on the web that have multiple hover points that link to different pages. Such images may include maps

or splash pages. See if you can make one where the user specifies an image, clicks hotspots in the image and specify links. It will then generate the HTML code to a file that the user can then copy and paste into their website to make the image map.

File Copy Utility – Create a utility that can do bulk file copying and backups of other files.

Code Snippet Manager – Another utility program that allows coders to put in functions, classes or other tidbits to save for use later. Organized by the type of snippet or language the coder can quickly look up code. For extra practice try adding syntax highlighting based on the language.

Versioning Manager – Create your own versioning system for code files. Users are forced to check out items and lock items during reading and writing so that a group of programmers are not accidentally overwriting code files on one another.

## Databases

SQL Query Analyzer – A utility application which a user can enter a query and have it run against a local database and look for ways to make it more efficient.

Remote SQL Tool – A utility that can execute queries on remote servers from your local computer across the Internet. It should take in a remote host, user name and password, run the query and return the results.

**Baseball / Other Card Collector** – Create an online application for keeping track of a collection of cards. Let the user enter all cards in a set, check off which ones they have, which ones they need and generate lists of cards they are looking for. For extra complexity, have it sum up sets and generate reports on how close they are of completing sets or the current value of a set.

**Report Generator** – Create a utility that generates a report based on some tables in a database. Generates a sales reports based on the order/order details tables or sums up the days current database activity.

**Database Backup Script Maker** – A program which reads a database's objects, relationships, records and stored procedures and creates a .sql file which can then be imported into another database or kept as a backup file to rebuild the database with.

**Event Scheduler and Calendar** – Make an application which allows the user to enter a date and time of an event, event notes and then schedule those events on a calendar. The user can then browse the calendar or search the calendar for specific events. For added complexity, allow the application to create reoccurrence events that reoccur every day, week, month, year etc.

**Budget Tracker** – Write an application that keeps track of a household's budget. The user can add expenses, income, and recurring costs to find out how much they are saving or losing over a period of time. For added complexity allow the user to specify a date range and see the net flow of money in and out of the house budget for that time period.

**Address Book** – Keep track of various contacts, their numbers, emails and little notes about them like a rolodex in the database. For extra complexity, allow the

user to connect to a website publish their address book based on specific options the user has set.

TV Show Tracker – Got a favorite show you don't want to miss? Don't have a PVR or want to be able to find the show to then PVR it later? Make an application which can search various online TV Guide sites, locate the shows/times/channels and add them to a database application. The database/website then can send you email reminders that a show is about to start and which channel it will be on.

Travel Planner System – Make a system that allows users to put together their own little travel itinerary and keep track of the airline / hotel arrangements, points of interest, budget and schedule.

Entity Relationship Diagram (ERD) Creator – A program that allows the user to put together ERD diagram and save it or have it generate some basic SQL syntax to give them a jumpstart.

Database Translation (MySQL <-> SQL Server) – A simple utility that reads in from one database and constructs SQL compliant with another database. Then saves that to another database. One popular transition would be to and from MySQL server for databases like SQL Server and Oracle.

Web Board (Forum) – Create a forum for you and your buddies to post, administer and share thoughts and ideas.

Graphics and Multimedia

Slide Show – Make an application that shows various pictures in a slide show format. For extra complexity try adding various effects like fade in/out, star wipe and window blinds transitions.

Mind Mapper – Allow the user to put down ideas and quickly brainstorm how they are related into a mind map. The goal here is speed so let the user quickly write in an idea and drag it around in a visual map to show relationships.

Import Picture and Save as Grayscale – A utility that sucks the color right out of an image and saves it. You could add more including adjusting contrast, colorizing and more for added complexity.

Stream Video from Online – Try to create your own online streaming video player.

Mp3 Player (and Other Formats) – A simple program for playing your favorite music files. For extra complexity see if you can add in playlists and an equalizer.

Bulk Picture Manipulator – This program will take in a directory of pictures and apply a certain effect to them whether it be reducing color count, changing its format, or alter file attributes. For something extra try to see if you can also create a system to tag them.

CD Burning App – Create a utility that simply burns data to a CD.

YouTube Downloader – A program which can download videos to your hard drive from youtube.com. Save the files in various formats including FLV and AVI.

Wallpaper Manager – Make a program which keeps track of your favorite wallpapers, changes them regularly automatically and maybe even resizes them for your resolution (aka tiles one and stretches another)

Screen Capture Program – Make a utility that will simply capture a frame from your web cam. For added complexity see if you can also build in emailing functionality.

Image Browser – This application is used to view various image files on your computer from PNG, GIF, JPG to BMP, TIFF etc.

Traffic Light Application – See if you can make your own street light application and then put it into an intersection scenario. Don't let any cars run the lights and crash into one another!

MP3 to Wav Converter – MP3 is essentially compressed wav format. See if you can translate it back into wav so that some other sound editing programs can work with the wav file itself. Keep in mind that 1 MB of MP3 is relative 10MB wav.

Signature Maker – Ever seen those web board posts where someone has a generated signature made up? See if you can make a program that allows the user to specify a background, text, colors and alignment to make their own signatures or userbars.

Screen Saver – Make a screensaver program that will run while your computer sits idle. To make a simple one use some standard pictures and then for added complexity try a 3D object that spins around the screen and bounces off the sides.

Watermarking Application – Have some pictures you want copyright protected? Add your own logo or text lightly across the background so that no one can simply steal your graphics off your site. Make a program that will add this watermark to the picture.

Turtle Graphics – This is a common project where you create a floor of 20 x 20 squares and using various commands you tell a turtle to draw a line on the floor. You have move forward, left or right, lift or drop pen etc. For added complexity, allow the program to read in the list of commands from a file. Do a search online for “Turtle Graphics” for more information.

## Games

Chess and Checkers – Simply put a game of chess or checkers. Try to make it playable online and if you can use a graphical user interface that can also undo or redo a step as well as keep a history of moves for replay.

Hangman – Randomly select a word from a file, have the user guess characters in the word. For each character they guess that is not in the word, have it draw another part of a man hanging in a noose. If the picture is completed before they guess all the characters, they lose.

Crossword Puzzle – Create a crossword puzzle which links words together on common letters. Provide a list of clues for each word and let the user enter fill in the words until the entire crossword is filled in.

Frogger – Get your frog across the river and lanes of traffic by either jumping on logs and lily pads rushing by at different speeds or avoid the automobiles which are also moving at various speeds. Based on the old arcade game.

Pac Man – Another arcade classic, move Pac man around a maze gobbling up pellets and trying to avoid a group of ghosts. Power pellets allow Pac man to eat the ghosts for a limited time.

Find Way Out of Maze – Develop an algorithm that allows a mouse to navigate through any maze given enough time.

Guitar Hero Clone – Create your own version of guitar hero where you can incorporate your own music and allow the user to press keys for the various colored notes. Judge their accuracy.

Breakout – A classic arcade game breakout involves a series of blocks at the top of the screen and using a paddle bounces a steel ball against the blocks to destroy them. Just don't miss the ball or else you will lose.

Pin Ball – I think we all know how pin ball works. Make a game where the user controls to mini paddles and keeps a ball in play, bouncing off various items and navigating through the course for various points. For added complexity, create a high score list.

High / Low Number Guessing – Randomly choose a number in a range of numbers and have the user guess. If their guess is too low, tell them “too low” and if their guess is too high tell them “too high”. Let them continue to guess until they get the right answer. Keep track of the number of guesses they made before getting it right.

Poker (plus online component) – Create a poker game where you can have 2 – 5 players be it real or computer controlled. Allow each player is given two cards face down which they must match against 5 community cards. The flop, the turn and the river to create the best hand possible. Each round they bet or fold.

Tic Tac Toe with Friend Online – A simple game of tic tac toe. For added complexity allow the application to be played over the internet where another player can against you.

Magic Eight Ball – Create a file full of random sayings and answers. Then have the magic eight ball pick one at random in response to a user’s question. Allow the user to enter the question and then show them the randomly picked answer.

Game of Memory – Make a game where you have 8, 16, 32 or 64 cards which are to be matched in pairs. The user enters which two cards to turn over to see if they are a pair. Show the user the cards they turned over, if they match remove them from the game. If they do not match, flip them back over. For added complexity, impose a time limit or a turn limit.

Black Jack – Also known as 21 make a game where the goal is to get as close to 21 without going over using a standard 52 card deck. The user plays against a dealer who has to sit on any value 17 or under.

Battleship – Create two game boards and let each player place a number of war ships. Each player can't see the other person's board. They then take turns firing at one another by guessing one of the board squares. If the square they guess contains part of a ship, it is a hit. Otherwise it is a miss. They sink a ship when all squares containing that particular ship have been uncovered. The player wins when all their opponents' ships have been sunk.

Snake Game – Create a board where you start out with a small snake. The goal is to eat as much food that appears on the board as possible without it running into its own body. Each time it eats food the snake grows longer. How long can you make your snake?

Slot Machine – Make a slot machine where the user can enter how many coins they are willing to bet and pull the handle. Have one of three wheels land on a random picture. Certain combinations of pictures yield coins. Others might be wild cards. For added complexity, allow the user to play not only the top, center and bottom row but also diagonals.

Ice and Dice – Have the user roll three dice. Each face that has a dot in the middle is said to have a hole in the ice. Each dot not in the center is said to be a polar bear. Have the user enter the number of holes and polar bears in a given time period. So for example if you have the side with 1 dot (in the middle) it is 1 hole and no polar bears. The number 2 has no dot in the middle but two dots in the corners so it has no holes and 2 polar bears. The number 3 has one dot in the middle and two dots in the corners so it has 1 hole and 2 polar bears. The number 4 has no holes and 4 polar bears. Five has 1 hole and 4 polar bears etc.



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... so you don't make a rm -rf / mistake again.



- 2 Hopefully, I'm going to finish my undergraduate studies next semester and I'm thinking about the topic of my final project. And yes, I've read the questions with duplicate title. I'm asking this from a bit different viewpoint, so it's not an exact dupe.
- 5 I've spent at least half of my life coding stuff in different languages and frameworks so I'm not looking at this project as a way to learn much about coding and preparing for real world apps or such. I've done lots of those already. But since I have to do it to complete my degree, I felt I should spend my time doing something useful instead of throwing the whole thing out. I'm planning to make it an open source project or a hosted Web app (depending on the type) if I can make a high quality thing out of it, so I decided to

ask StackOverflow what could make a useful project.

## Situation

I've plenty of freedom about the topic. They also require 30-40 pages of text describing the project. I have the following points in mind (the more satisfied, the better):

- Something useful for software development
- Something that benefits the community
- Having academic value is great
- Shouldn't take more than a month of development (I know I'm lazy).
- Shouldn't be related to advanced theoretical stuff (soft computing, fuzzy logic, neural networks, ...).  
I've been a business-oriented software developer.
- It should be software oriented. While I love hacking microcontrollers and other fun embedded electronic things, I'm not really good at soldering and things like that.
- I'm leaning toward a Web application (think StackOverflow, PasteBin, NerdDinner, things like those).

## Technology

It's probably going to be done in .NET (C#, F#) and Windows platform. If I really like the project (cool low level hacking), I might actually slip to C/C++. But really, C# is what I'm efficient at.

## Ideas

Programming language, parsing and compiler related stuff:

- Designing a domain specific programming language and compiler
- Templating language compiled to C# or IL
- Database tools and related code generation stuff

Web related technologies:

- ASP.NET MVC View engine doing something cool (don't know what exactly...)
- Specific-purpose, small, fast ASP.NET-based Web framework

Applications:

- Visual Studio plugin to integrate with Bazaar (it's too much work, I think).
- ASP.NET based, jQuery-powered issue tracker (and possibly, project lifecycle management as a whole - poor man's TFS)

Others:

- Something related to GPGPU

Looking forward for great ideas!

Unfortunately, I can't help on a currently existing project. I need to start my own to prevent further problems (as it's an undergrad project, nevertheless).

[open-source](#) [application](#) [computer-science](#) [ideas](#) [academia](#)

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edited **Mar 11 at 1:18**

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[6 revs, 2 users 100'](#)

"seriously, this BS didn't worth much more work. I just went to undergrad so that I could get to grad school ;)" So, you want us to do your homework for you? – [DOK](#) May 25 '09 at 19:57

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@DOK: No I'm actually asking for something like "open-source" project idea that I could implement and at least some people could benefit from it. – [Mehrdad Afshari](#) May 25 '09 at 19:58

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10 You have a negative view of the project since it's "bs". Why should we give you an idea that you'll only put half effort into, and then possibly release unfinished garbage to the community? – [Jared](#) May 25 '09 at 20:03

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1 I don't have a negative view toward the project. I want to use my time in a productive project rather than just "doing homework". – [Mehrdad Afshari](#) Dec 11 '09 at 23:47

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Help finish LatexLab. – [Hamish Grubijan](#) Jan 25 at 20:33

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## 13 Answers

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7 I like the idea of the DSL that compiles down to a .NET executable. I'm working on something similar for one of my final projects here at school.

If you are looking for any resources on this topic here is what I have found so far:

- [Mike Stall's Open Source C# Compiler written in C#](#) - He openly admits that this was his first project in C# (a testament to the kind of guy he is), it is C# 1.0 feature complete and can bootstrap itself. Definitely worth giving the source code a once over.
- [MSDN Article: Create a Language Compiler for .NET in C#](#) - Good overview article on MSDN
- [Compiling for the .NET Runtime](#) - Amazon link to a book I have found useful on the subject.
- [CLR via C#](#) - Another excellent resource when learning the nitty-gritty of the CLR

I actually emailed Mike Stall and asked him for some advice on writing a .NET compiler as a university project. He gave me some great tips:

- Writing the lexer by hand is relatively easy, but if you can use a parser generator (such as ANTLR). Writing the parser is fairly tedious
- For the code generation phase of the compiler, you basically have three options:
  1. [Reflection.Emit](#) - Emits IL opcodes. However! `Reflection.Emit()` cannot emit all possible constructs (incomplete with certain generic things)
  2. Spew out your IL codes to a textfile by hand, and run ILASM on the file.
  3. Use the newly created CCI ([Common Compiler Infrastructure](#)) - CCI is very new and very cool in how it works. It takes a tree structure and will emit the IL opcodes based off the tree you pass in. Easiest option for this project by far.
- PEVerify.exe is very useful when testing your compiled executables. It does static validation on IL.
- Use ILDASM with programs that you have compiled with CSC.exe to help make sure you are getting the IL sequence correct in your own compiler.

Be sure to let us know what project you think you are going to take on!

[link](#)[flag](#)edited **May 30 '09 at 17:44**

community wiki

[2 revs](#)[Simucal](#)

**6** there's also the recent opening of data.gov which you could use to do some kind of information mashup (which is pretty much the given trend now in webdev). there's even a contest associated with all this.

<http://www.sunlightlabs.com/contests/appsforamerica2/>

[link](#)[flag](#)answered **May 25 '09 at 20:07** community wiki[marduk](#)

It's mostly about client side user experience and extremely polished thing. Not developer friendly and not easy to  
**1** write a text about... – [Mehrdad Afshari](#) May 25 '09 at 20:16

**4** Mehrdad, I don't know if you are still interested ideas, but I will propose this one to you anyway, because I think it would be of great value to the developer community, and I know that I won't pursue it myself.

The idea is a **Visual Debugger**. I've worked on a bit, and named it 'obivis', but if you start again, I think you should name it yourself, as it will be only your work.

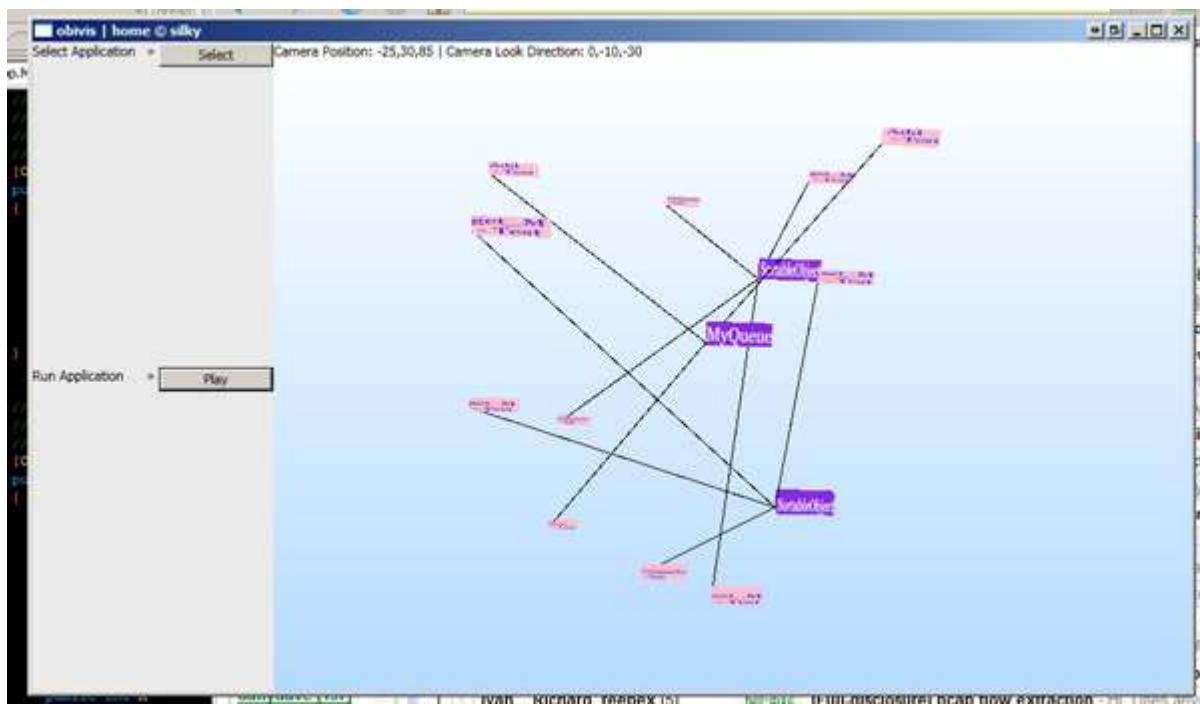
The basic concept is:

A real-time debugger that you can attach to any running .net process (or launch one). It will then show you, with 3D graphics, the calls between all live objects.

General features:

- Navigate the world with a mouse/keyboard to see what objects are doing
- Start/Stop any application and watch calls
- Click on an object in the 3d debugging world, to get the member variables/other properties of it

Below is an image of my previous attempts in WPF:



I hit a roadblock because the AOP functionality in the .NET framework was not sufficient, and I needed to go to the profiler API in C++, but this was beyond my abilities, so I couldn't proceed further.

The beauty of doing the rendering engine in WPF is that it can be adapted to Silverlight, and hence you would have the ability, through some WCF interface (or similar), 'visually debug' ASP.NET processes.

I wouldn't intend this system to replace general debugging in Visual Studio. My thought with this system is that it will let you understand the *relationships* between objects in a system that you potentially didn't write. It could let you *understand* how the system calls itself.

More specific features would be:

- Conditional breaking [obvious feature for a debugger :P]
- Ability to filter namespaces, or get a general 'overview' view of the conversations *between namespaces*
- And many more

I personally would find it quite interesting and useful, and I think the developer community at larger would enjoy it as a useful open-source addition to the typical debugging techniques. Currently it is hard to get an overall 'idea' of how an application integrates with itself, any sufficiently complicated application anyway, and I think this project would provide a nice way to do that, and be generally fun and interesting to work on. I also think for someone of your capability it should be possible :)

I leave it to you.

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answered **Aug 28 '09 at 10:41** community wiki

[silky](#)

**3** A tool that migrates from one database system to another, including all data types of all supported database systems, Stored Procedures, Views, Foreign keys, triggers, ON CASCADE, functions, database jobs, etc.

E.g. MS-SQL -> PostGre, MySQL->PostGre, Oracle->PostGre, PostGre -> MS-SQL, etc.

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answered **Apr 19 at 11:18**

community wiki

[Quandary](#)

**2** Personally I would go for something that I was interested in so I wouldn't have to drag myself to the keyboard, just to get it done ;). In my case it would be game development.

Your game wouldn't need a good story to be playable/enjoyable as you could make it physics or AI related (it's like John Carmack said.. "Story in a game is like a story in a porn movie. It's expected to be there, but it's not that important." ). . Also you could try some game engine development but it's quite a lot work if you are not strong with graphics programming.

[link](#)|[flag](#)

answered **May 25 '09 at 21:18**

community wiki

[MariuszMarciniak](#)

Respect to Carmack as a great hacker. I guess that's why I hate Doom and love the original Prince of Persia :) – [Mehrdad Afshari](#) May 25 '09 at 21:23

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If you like the original POP you should find the this link interesting ([jordanmechner.com/old-journals](#)). You can find there the old journals of the developer behind the POP from when he was developing it, from start to finish! – [MariuszMarciniak](#) May 25 '09 at 22:30

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I'd read the whole journals long time ago ;) – [Mehrdad Afshari](#) May 26 '09 at 8:16

**1** Create a web application framework that easily integrates [RDF](#) or a similar technology with the published content, making all that content easily discoverable and usable by semantic-web apps, such as [SearchMonkey](#) or [Twine](#)

[link](#)|[flag](#)

answered **May 25 '09 at 20:11**

community wiki

[Vinko Vrsalovic](#)

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Looks like a nice idea... – [Mehrdad Afshari](#) May 25 '09 at 20:12

**1** This may be a stretch for you since it doesn't make use of .NET and might not be a "self-contained" project that fits into a month's worth of work, but I suggest trying to help out on the [Shed Skin](#) project. You or its author can probably find a suitably sized chunk of work that you can do in a month and write it up. It would be of both academic and practical value.

[link](#)|[flag](#)

answered **May 25 '09 at 20:15**

community wiki

[John Y](#)

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Shed Skin is really cool (I make sure all my Python code compiles with it), but he did say that he couldn't just contribute to an open source project. – [Zifre](#) May 25 '09 at 20:18

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@Zifre: His comment wasn't on my screen at the time I posted my answer. (Even if I saw it in time, I probably would have gone ahead with my answer anyway. The answer isn't just for the original poster but for anyone reading Stack Overflow.) – [John Y](#) May 25 '09 at 20:30

**1** I wouldn't recommend you to do a compiler/interpreter, for a few simple reasons:

- It's a hell of a job

- There are too many out there (and most of them aren't used by anybody)

My advice is that you shouldn't close your mind to what you call "advanced topics", because they're not so difficult (at least not more difficult than implementing a good compiler xD) and they will probably make your work shine a little bit more... and also you will learn some cool stuff that may be helpful someday and you wouldn't otherwise learn.

What about some kind of game? Everybody likes games ^\_^

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answered **May 25 '09 at 20:45** community wiki

[fortran](#)

I thought of game right before posting the question: 2 problems: I'm not a 3D guru, which is not a real problem. The real problem is a good game requires a good story. :)) – [Mehrdad Afshari](#) May 25 '09 at 20:47

There are lots of games without awesome graphics nor stories that are very fun to play... remember tetris, pacman or arkanoid? xD Or maybe something more in your line, what about a web mmorpg? Like OGame, for example. – [fortran](#) May 26 '09 at 7:56

I agree. Even think of the game "I Wanna be the Guy". Its a 2D.. sidescroller I guess, with absolutely no storyline, yet its one of the best games I've ever played. – [DeadHead](#) Jun 28 '09 at 5:06

Yet the academics would argue a game doesn't benefit the community unless it introduces some novell technology.. – [Michael Foukarakis](#) Aug 28 '09 at 10:48

**1** I would target something with accessing data over the Web and presenting it in a friendly manner.

So, may be:

- a site that would allow to answer comparison questions from Wikipedia ("top peak in africa" -> "from Mountains where location=Africa select Highest" -> ...)
- a distributed, secure, Tor-like gateway to social networks

It certainly would be interesting to learn parallelization (OpenCL?). You could also use the opportunity to learn Python, it's similar to .NET in many ways but imho easier while implementing important concepts. Please keep us informed how it's going. I hope the question is still relevant.

(*update*) I wouldn't go with compilers, etc. First, there was an excellent post by Joel about how people overestimate the need for code tools. Second, it's good to learn to write things that would be used by the average Internet user (this is kind of a special skill which not every high-level programmer has).

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edited **Jun 21 '09 at 1:23** community wiki



[district collectorate\\_ information integration](#)

sumathi

by [sumathi](#)

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## Computer Science projects

As part of your degree course you have the chance to do a project, which extends throughout your final year.

**This is a great opportunity to put into practice all the skills you have developed on your course and to really show the world what you can do.**

Projects also often form an important focus for discussion at interview with future employers as they provide a detailed example of what you can achieve.

Projects typically involve taking an engineering approach to the design and development of a software system that fulfils a practical need (including, for example, filling a perceived gap in the general software market). You can come up with your own ideas or choose your project topic from the lists supplied by members of staff. Projects can be

related to funded research projects within the department and we encourage industry-related projects and novel applications within the sciences, education or government.

**The possibilities are only limited by your imagination.**

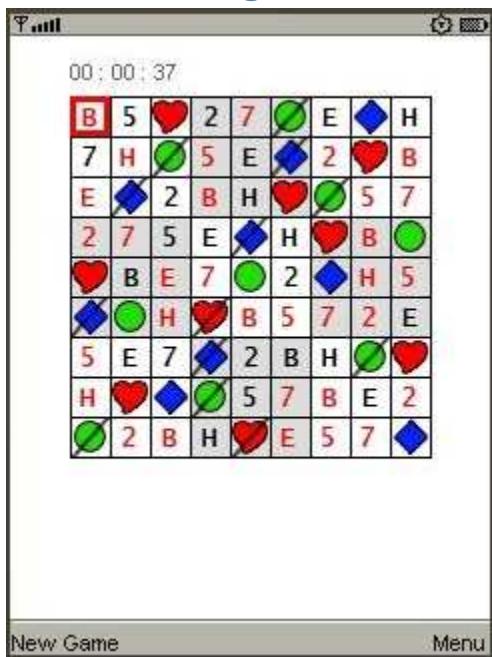
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#### Previous student projects

These student projects were all done as the main project in the third year of their course. In all these cases none of the students could programme before they started studying at Queen Mary, but by the time they had finished the course they had turned their brilliant new ideas into reality.

- [Flower power](#)
- [Sudoku on the go](#)
- [Autocartoon](#)
- [Robot fencing](#)
- [Sign language tutor](#)
- [Seesawing robots](#)
- [Emoticons in chat rooms](#)
- [Making faces](#)
- [Interactive Robot face](#)
- [Steganography](#)
- [Synthetic iris](#)

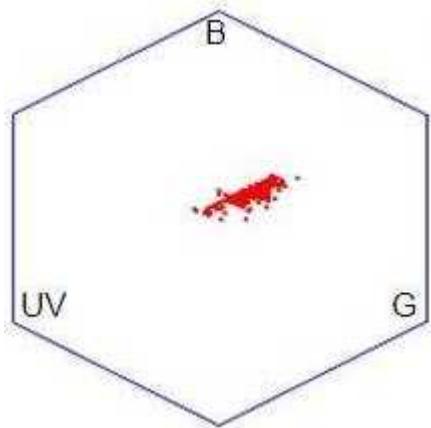
## *Sudoku on the go*



Haider Jabbar enjoys a good puzzle, that's why he's a computer scientist. For his final year project he created a new range of soduku based puzzles for his mobile phone. Using a programming language called J2ME you can program your phone just like a desktop. The new soduku games involved creating traditional number puzzles, but also the option to make things more challenging by using letters instead or even symbols, or a mixture of all three. The system even allows you to enter a part played game to be solved step by, a useful little cheat for the puzzle perplexed.

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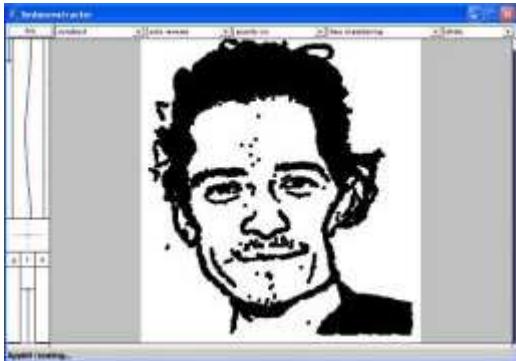
## *Flower power*



If it were not for the bees we would be in trouble. Bees are the main way that flowers get pollinated, as the bees suck the nectar they carry pollen from flower to flower, allowing new generations of flowers to grow. But the way a flower looks to our eyes isn't the same way a bee sees it. For example, bee vision works into the ultra violet; under the correct lighting in a laboratory wonderful, normally invisible, patterns are revealed. Biologists all over the world have been collecting information about the sorts of patterns that particular flowers display. This display is called a spectral profile, and Samia Faruq has done her bit to help these scientists peer into the world of the bees. Her project involved creating a massive online database containing worldwide spectral profile information, so scientists can search this information easily. They can also combine information to help discover new facts using a method called clustering, where the computer pulls together all the data with similar properties.

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## *Autocartoon*



This student project involved producing a software package that takes a picture of your face and turns it into a cartoon drawing. The system works like a human cartoonist, exaggerating the differences between the person's face that they are drawing and the average face. So for example if you have slightly larger than normal ears then a cartoonist will draw them even larger. The software also lets you turn your cartoon into a Sodaconstructor drawing. Sodaconstructor is part of the department's [Sodarace project](#), and many students projects have been a part of Sodarace. You can try the software for yourself at [www.dcs.qmul.ac.uk/sodarace/](http://www.dcs.qmul.ac.uk/sodarace/).

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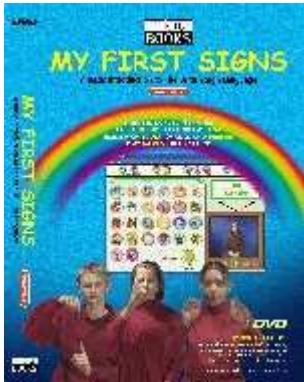
## *Robot fencing*



This project involved the building of two robots who fenced with each other. One robot was controlled by a flexible exoskeleton that the student built to convert his arm movements into movements in the robot. The second robot was controlled by artificial intelligence: its skills in fencing were created by obtaining 'know how' from experts on the college Fencing team and building a set of rules for the robot to follow allowing it to react to the attacking robot in a human like way.

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## *Sign language tutor*



The result of this project is an interactive tutor software that teaches deaf and non-deaf users Sign Language. The software, which includes games and quizzes as well as the learning sections (for beginners and advanced), is available on CD and DVD and is currently being commercialised by the company Microbooks. They believe it will do very well as it is the first interactive and substantial system aimed at children, both deaf and non deaf.

Read more about the project in issue 14 of the [Quad magazine \[QM website\]](#).

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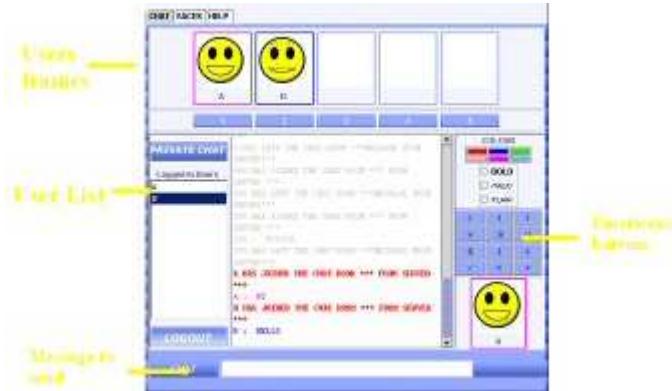
## *Seesawing robots*



In this project two robots were built from Lego Mindstorm kits and software was developed to allow the robots to communicate with one another to "play on a seesaw". (The project also involved some carpentry to build the seesaw!). The software to run on the robots was challenging, the code needs to be compact and allow the robots to react quickly. To finish it all off, the student wrote the Ringmaster program shown, which allowed him to control

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## *Emoticons (smilies) in a multiple users chat room application*



Computer technologies mean that we live in a world where much of our communication is based on written rather than spoken words; phone texts, emails and chat rooms are popular examples. If we are speaking to someone face to face their expressions and tone of voice give us clues to what they are meaning. Text can be a problem though as often the meaning of phrases can be mistaken. In this project a multiple user chat room was built from scratch, where a face represented each of the users, the expression on that face was controlled by the users which we showed experimentally this helped better communication in the chat room group.

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## *Making faces*



We can think of colour as made up of adding 'colour elements' (wavelengths). Similarly can we find the set of images to add together to make faces. Shown are these 'face elements', and in the red box a set of new faces made by mixing together the 'face elements'. Interesting fact: the face element at the top left is the "average" face from the large set of different faces used to build the system, to most people it looks particularly attractive, so do people prefer average faces?

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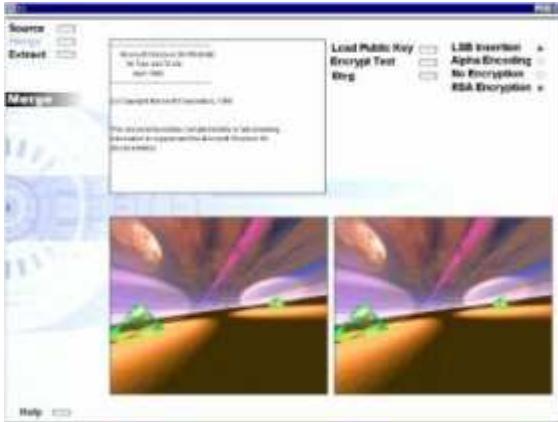
## *Interactive robot face*



In this third year project the student built a robotic face (from Lego mindstorm) capable of expressing emotion, and software that allowed the robot to respond to the tone of the user voice. In the future many more devices around the home may have the ability to recognise and respond to emotion. [\[Watch the video\]](#)

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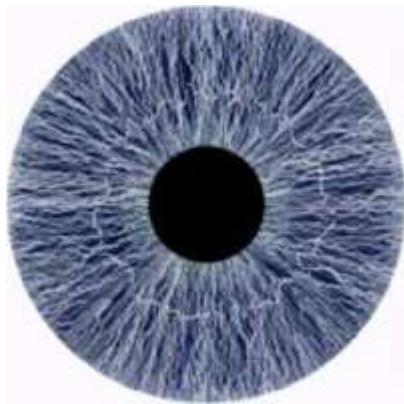
## *Steganography*



This project was about steganography, (the word means hidden writing). The software package developed allows the user to hide information in pictures. By understanding the way information is stored in a digital picture and also how human brains work when looking at a picture, we can find ways of hiding the extra text information in the picture so that the human observer won't notice it is there.

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## *Synthetic Iris*



In this project the student developed a computer model of the human iris, that's the coloured bit in your eye. This model used an understanding of the biology actually involved in the growth of your iris and turned this medical information into a computer simulation which gives the computer generated iris its realistic appearance. Application of this method could be in computer graphics for movies, or for testing iris scan security systems.

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1. NDIS IM Filter Driver [IP Based Filtering] in Windows XP, Vista
2. NDIS IM Filter Driver [Port Based Filtering] in Windows XP, Vista
3. USB Filter Driver
4. Simulating the File system on a single file of X MB [Windows and Linux]
5. Self Extracting Executables
6. File System Filter Driver in Windows
7. File System Mini filter driver in Windows
8. Self Extracting Executable with LZMA
9. Memory Analysis tool in Windows and Linux
10. Memory usage learning and enforcement
11. IP Scanner, Port Scanner and OS Prober
12. Detect NIC in Promiscuous mode
13. Write a firewall using callout driv

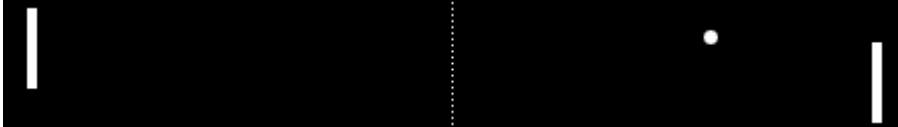
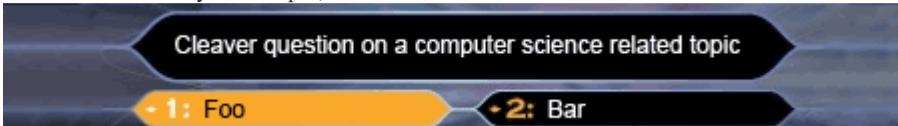
# 12 Computer science game project ideas

By [Tony](#) February 14, 2007 [Post a comment](#)

Most high school computer programming classes end in an ISP, ISU, or a *science fair* type of a design project. A good computer science project topic could be a challenge to come up with, though it usually ends up involving some video game ideas. So if you want to impress your friends, get a killer grade, or simply want to pass that programming course you were too late to drop – read on for suggestions.

## Beginner video game project ideas

Vanilla flavoured, basic game ideas – classic, easy to make, perfect to get that project over with:

-  **Tic Tac Toe** – easiest way out, especially with Java or Visual Basic. Drag and drop a few buttons into a form, have players take turns clicking on them, and add a few if statements to check for wins. Start to finish in 30 minutes of work, just grab your laptop to that *washroom break* upon the realization that the due date is today.
-  **Pong** – another easy project idea. Being one of the first video games made, today's technology clearly requires minimal programming on your part. Bounce the ball around, and possibly add a couple more if statements than in the previous title. Watch out for the keyboard input, that could be new.
-  **Who wants to be a millionaire?** – or any other flavour of a quiz game. It could be simple, fully text based, and it's arguably the only *educational* game on the block. The trick is to write a function to read all the questions from a datafile, instead of copying the same blocks of source code all over the place. Remember, it's a game with 15 questions, not 15 "one question" games stuck together.

## Intermediate computer programming projects

Chocolate flavour – common ideas that are still popular. You should probably consider one of the following titles:

- 
- **Pacman** – an icon of a video game, this programming project is going to be "choose your own adventure" style. The wall collision might be tricky at first, but there are plenty of approaches to try: reading colour information off screen, math, tile

maps... You could totally get away with just letting the ghosts run around in random directions, smacking against the walls (because you got that collision detection working, right?), but if you are interested and have enough time – each ghost could have a unique AI, just like in the original game.



- **Tetris** – you are the master of arrays, and know how to figure out if there's enough space under a block to continue falling. That's about it really. Your code ninja skills can further be sharpened with graphic effects, combo points schemes, and having your computer scream *TETRIS!* when that long stick comes at just the right time.



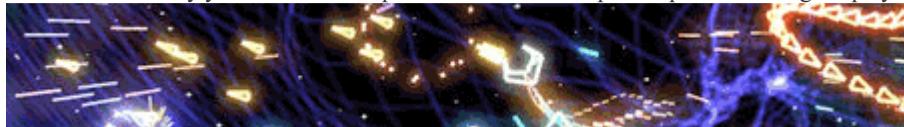
- **Bomberman clone** – another fun idea. Your friends from the *Beginner Projects* will gladly start testing bugs out as soon as you get that multiplayer working. Idea is very similar to that in Pacman, but it's 42% more fun when you have power ups! *Super Power Glove!*. Just don't scream "bomb" in class, it could be taken the wrong way...

## Advanced computer science project topics

This is the Vanilla Bean Chocolate Chips Frappuccino Blended Creme type of a game design project, with a cherry on top.



- **Mario clone** – meaning a *platformer*. Kind of like Bomberman, but you broke out of a confined box. More space = more possibilities. You get to attempt to catch that scrolling screen's edge. You get to jump. You get to jump on your enemies' heads! Well actually you could still keep all those bombs and powerups to mix the gameplay up a bit and make it unique.



- **Overhead shooter** – technically another *platformer* programming project, but turned on its side and with more firepower. It could be shoot-em-up, down, or sideways style. Mario has gotten a jet fighter, in futile hopes of taking a shortcut to *another castle*. Now it's kind of like Tetris, but falling boxes have been replaced with moving tanks... or shiny polygons. Think *Supersize!* Think ridiculously overpowered upgrades with stunning graphical effects. Now that's a project.



- **RPG** – if you hate your life (and some apparently do), this obviously final year attempt at video game programming glory is likely to end badly. The game engine itself is often fairly spread out (world travel, town travel, shops, fights, etc) and requires an ungodly amount of effort. That leaves you with practically no time to design any plot or story for this project. Though some students chose to concentrate on a limited part of the game, putting together a demo segment to salvage such game design project into something more presentable.

## Mini Project Ideas

1. NAT
2. honeypots
3. Creation of a DMZ
4. Creation of a sniffer and a port scanner
5. GSM
6. Library Management System
7. Hotel Management System
8. Timetable generation (user will input subjects, faculty times, class room times) : User will also input subject seriality and topics to be taken for the week.
9. CD library management
10. Admission procedure
11. Online passport registration
12. Examination result according to the classes
13. Ice cream parlour management system
14. Pizza hut - account management system
15. Multi player strategy game: Project ideas on Visual basic,Java,Database
16. You can develop a speech response application using some hardware interface using the Microsoft SAPI SDK
17. You can develop a Microsoft Word like application in VB ( a text editor basically)
18. You can develop a LAN administrator tool (socket programming comes easy in VB) which will monitor application on a LAN and provide functions
19. Voice Mail Systems
20. Computer Telephony Integration

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1. Andriod OS
  2. Xen Ware
  3. Blue Gene
  4. Self Defending networks
  5. Cognition & Perception
  6. Network Attached Storages
  7. 4G & 5G
    - 1) PCI DSS security module
    - 2) AS2 protocol for file transfers
    - 3) PGP encryption technology
    - 4) OpenPGP encryption
  6. Spyware
  7. Quantum Computing
  8. Blue - Ray Disc
  9. Robotics
  10. RFID
  11. MANET
  12. WAP
  13. DNA Computing in security
  14. 4g Wireless Systems
  15. HomeRF- localized wireless technology optimized for the home environment
  16. Internet Searching
  17. Zigbee
  18. Java Management Extensions (JMX) - component framework for building intelligent network
  19. Earth Simulator- Fastest Supercomputer
  20. Home Networking
  21. TouchFLO Technology <
  22. Tracking and Positioning of Mobiles in Telecommunication
  23. 3D Volume Storage
  24. Optical Networking and Dense Wavelength Division Multiplexing
  25. Software-Defined Radio <
  26. Space-time adaptive processing
  27. Secure File Transfer (use PGP, deflate or nay encryption method)
  28. A Secure GateWay
- SPINS -Security Protocol For Sensor Network  
 Generic visual perception processor  
 Nanotechnology Assembler Design And Nano-Communication  
 Tele-Immersion  
 Liquid Crystal on Silicon Display (LCOS)  
 Jini - advanced set of network protocols  
 Computer memory based on the protein bacterio-rhodopsin  
 CSS and DeCSS

Multimedia Broadcast Multicast Service (MBMS)  
Extreme Programming (XP)  
Holographic Versatile Disc  
Zero Knowledge proofs  
Bimolecular Computers  
>Context Disambiguation On Web Search Results  
Touch Screen Technology  
Surface Computer  
Face Recognition Technology  
4G Wireless Systems  
A BASIC TOUCH-SENSOR SCREEN SYSTEM  
Artificial Eye  
Animatronics  
Automatic Teller Machine  
Aircars  
Adding interlligence to inernet using satellite  
ADSL  
Aeronautical Communications  
Agent oriented programing  
Animatronics  
Augmented reality  
Autonomic Computing  
Bicmos technology  
BIOCHIPS  
Biomagnetism  
Biometric technology  
BLUE RAY  
Boiler Instrumentation  
Brain-Computer Interface  
Bluetooth Based Smart Sensor Networks  
BIBS  
CDMA Wireless Data Transmitter  
Cellonics Technology  
Cellular Positioning  
Cruise Control Devices  
Crusoe Processor  
Cyberterrorism  
Code division duplexing  
Cellular Digital Packet Data  
Computer clothing  
Cordect WLL  
CARBIN NANO TUBE ELECTRONICS  
CARNIVORE AN FBI PACKET SNIFFER  
CDMA  
CELLONICSTM TECHNOLOGY  
CELLULAR NEURAL NETWORKS  
CELLULAR DIGITAL PACKET DATA  
CIRCUIT AND SAFETY ANALYSIS SYSTEM  
CISCO IOS FIREWALL  
CLUSTER COMPUTING  
COLD FUSION  
COMPACT PCI  
COMPUTER AIDED PROCESS PLANNING (CAPP)  
COMPUTER CLOTHING

COMPUTER MEMORY BASED ON THE PROTEIN BACTERIO  
CONCEPTUAL GRAPHICS  
CORDECT  
CORDECT WLL  
CRUISE CONTROL DEVICES  
CRUSOE PROCESSOR  
CRYOGENIC GRINDING  
CRYPTOVIROLOGY  
CT SCANNING  
CVT  
Delay-Tolerant Networks  
DEVELOPMENT OF WEARABLE BIOSENSOR  
DiffServ-Differentiated Services  
DWDM  
Digital Audio Broadcasting  
Digital Visual Interface  
Direct to home television (DTH)  
DOUBLE BASE NUMBER SYSTEM  
DATA COMPRESSION TECHNIQUES  
DELAY-TOLERANT NETWORKS  
DENSE WAVELENGTH DIVISION MULTIPLEXING  
DESIGN, ANALYSIS, FABRICATION AND TESTING OF A COMPOSITE LEAF SPRING  
DEVELOPMENT OF WEARABLE BIOSENSOR  
DGI SCENT  
DIFFFSERVER  
DIGITAL AUDIO BROADCASTING  
DIGITAL CONVERGENCE  
DIGITAL HUBBUB  
DIGITAL SILHOUETTES  
DIGITAL THEATRE SYSTEM  
DIGITAL WATER MARKING  
DIRECT TO HOME  
DISKLESS LINUX TERMINAL  
DISTRIBUTED FIREWALL  
DSL  
DTM  
DWDM  
DYNAMIC LOADABLE MODULES  
DYNAMICALLY RECONFIGURABLE COMPUTING  
ELECTROMAGNETIC INTERFERENCE  
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Extreme Programming  
EDGE  
ELECTROMAGNETIC LAUNCHING SYSYEM  
E BOMB  
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EUVL  
EXT3  
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EXTREME ULTRAVIOLET LITHOGRAPHY  
Ferroelectric RAM  
Fluorescent Multi-layer Disc  
Face detection technology  
FSO transmitter  
FACE RECOGNITION TECHNOLOGY  
FIREWIRE  
FRACTAL IMAGE COMPRESSION  
FRACTAL ROBOTS  
FRAM  
FREE SPACE OPTICS  
FREQUENCY SHIFT KEYING  
FUTEX  
Gaming consoles  
GMPLS  
GSM Security And Encryption  
Guided Missiles  
Green engine  
GAMING CONSOLES  
GENERAL PACKET RADIO SERVICE  
GENETIC PROGRAMMING  
GEOGRAPHIC INFORMATION SYSTEM  
GLOBAL POSITIONING SYSTEM  
GLOBAL SYSTEM FOR MOBILE COMMUNICATION (GSM)  
GMPLS  
GRAPHICS PROCESSING UNIT  
GREEN ENGINE  
GRID COMPUTING  
GENERAL PACKET RADIO SERVICE  
GRAPHICS PROCESSING UNIT  
H.323  
HALO NETWORK  
HANDFREE DRIVING  
HANS  
HIGH ALTITUDE AERONAUTICAL PLATFORM STATIONS  
HIGH AVAILABILITY LINUX CLUSTERING  
HIGH TEMPERATURE SUPERCONDUCTORS  
HIGH-AVAILABILITY POWER SYSTEMS  
HOLOGRAPHIC MEMORY  
HPJAVA  
HTAM  
HUMAN COMPUTER INTERFACE  
HURD  
HVAC  
HYDRO DRIVE  
HYPER THREADING  
HYPER TRANSPORT TECHNOLOGY  
HYPERTEXT PREPROCESSOR (PHP)  
HY-WIRE CAR

H\_323  
High Altitude Aeronautical Platforms  
Home Networking  
Holographic memory  
Hyperthreadimax  
high speed data  
Honeypots  
HPJava  
Human Computer Interface  
Hurd  
InfiniBand  
Intelligent calling bell  
INFINITE DIMENSIONAL VECTOR SPACES  
Intel MMX  
INTRUSION DETECTION SYSTEMS  
Ipv6 - The Next Generation Protocol  
Iris Scanning  
I MODE  
IDC  
IDS  
ISI  
IGCT  
IMAGE AUTHENTICATION TECHNIQUES  
IMAX  
INFINI BAND  
INFINITE DIMENSIONAL VECTOR SPACES  
INTEGRATED POWER ELECTRONICS MODULE  
INTEGRATION OF INFORMATION TECHNOLOGY IN MACHINE TOOLS  
INTEL CENTRINO MOBILE TECHNOLOGY  
INTEL MMX  
INTELLIGENT NAVIGATION SYSTEM  
INTELLIGENT NETWORK  
INTELLIGENT SOFTWARE AGENTS  
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INTERNET ARCHITECTURE AND ROUTING  
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ISOLOOP MAGNETIC COUPLERS  
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Integrated Power Electronics Module  
Integration of information technology in machine tools  
INTEL CENTRINO MOBILE TECHNOLOGY  
Interactive Voice Response System  
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JAVA MESSAGE SERVICE  
Javaring  
Josephson junction  
KIRLIAN PHOTOGRAPHY  
LANDMINES DETECTION  
LASER & SATELLITE GUIDED STRIKERS  
LASER COMMUNICATION  
LED WIRELESS  
LIGHT EMITTING POLYMERS  
LIGHTNING PROTECTION USING LFA-M

LIGHT-TREE  
LINE REFLECT REFLECT TECHNIQUE  
LINTO  
LINUX IN EMBEDDED SYSTEMS  
LMDS  
LOW POWER UART DESIGN FOR SERIAL DATA COMMUNICATION  
LWIP  
Light controlled fan regulator  
Laser Communications  
Layer 3 switching  
Lazer communication  
LED WIRELESS  
LIGHT-TREE  
LIWIA3  
LRR  
Managing Data In Multimedia Conferencing  
Microsoft Windows Distributed internet application architect  
Migration from GSM network to GPRS  
Minidisc  
Moct  
Modular Computing  
MPEG-7  
Mobile IP  
Molecular Electronics  
Multisensor Fusion and Integration  
MAGNETIC RAM  
MANAGING DATA IN MULTIMEDIA CONFERENCING  
M-COMMERCE  
MICRO ELECTROMECHANICAL SYSTEM (MEMS)  
MICRO ELECTRONIC PILL  
MICROSOFT PALLADIUM  
MICROSOFT WINDOWS DISTRIBUTED INTERNET APPLICATION ARCHITECT  
MIGRATION FROM GSM NETWORK TO GPRS  
MILLIPEDE  
MINI DISC  
MOBILE IP  
MOBILE TELEMEDICINE SYSTEMS  
MOCT  
MODULAR COMPUTING  
MODULAR ROBOTICS  
MOLECULAR ELECTRONICS  
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MPEG-7  
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NAS  
NVT

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OPEN SOURCE DEVELOPMENT WITH CVS  
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OPTICAL ETHERNET  
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PH Control Technique using Fuzzy Logic  
Pivot Vector Space Approach in Audio-Video Mixing  
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Project Oxygen  
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PALLADIUM  
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PARALLEL COMPUTING IN INDIA  
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PASSIVE INTEGRATION  
PERCEPTIVE COMPUTING  
PH CONTROL TECHNIQUE USING FUZZY LOGIC  
PIVOT VECTOR SPACE APPROACH IN AUDIO-VIDEO MIXING  
PIXIE DUST  
PLAN 9 OPERATING SYSTEM  
PLASMA ANTENNAS  
PLASMA ARC TECHNOLOGY  
PLASTIC ELECTRONICS  
PLASTIC CHIPS  
POLYMER MEMORY  
POWER SYSTEM CONTIGENCIES

PRIORITY INV & CHAIN BLOCKING  
PROJECT OXYGEN  
PROTEIN BASED DNA COMPUTERS  
PROTEIN ARCHITECTURE  
PROTEIN MEMORY  
PROTEOMICS  
Power line communication  
Q HEAP  
QOS IN CELLULAR NETWORKS BASED ON MPT  
QUADRICS INTERCONNECTION NETWORK  
QUANTUM COMPUTING  
QUANTUM CRYPTOGRAPHY  
QUANTUM TELEPORTATION  
QUANTUM\_COMPUTING  
RADIO FREQUENCY IDENTIFICATION  
RAOOF  
RAPID PROTOTYPING  
RD RAM  
RE ENTRY OF SPACE VEHICLE  
REAL FAIR  
RECONFIGURABLE COMPUTING  
RESILIENT PACKET RING NETWORKS  
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Robotic surgery  
Radio frequency light sources  
RD ram  
RESILIENT PACKET RING Networks  
RFID technology  
RTOS - Vx WORKS  
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SATRACK  
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Search For Extraterrestrial Intelligence  
Simputer  
Smart Note Taker  
Single photon emission computed tomography  
Smart card  
Speed Detection of moving vehicle using speed cameras  
Stealth Fighter  
Surround Sound System  
Satellite radio  
SALT  
SAP R3 ARCHITECTURE  
SATELLITE RADIO  
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SELF MANAGING COMPUTING SYSTEM  
SELF ORGANIZING MAPS  
SENSORS ON 3D DIGITIZATION  
SENSOTRONIC BRAKE CONTROL  
SESSION INITIATION PROTOCOL  
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SKID STEER LOADER AND MULTIERRAIN LOADER  
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SMART CARDS  
SMART DUST  
SMART EDIT  
SMART PIXEL ARRAYS  
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SMF COUPLER  
SOFTWARE IN MEDICAL IMAGING  
SPACE AHUTTLES AND ITS ADVANCEMENTS  
SPACE MOUSE  
SPACE ROBOTICS  
SPECT  
SPEECH RECOGNITION  
SPEED DETECTION OF MOVING VEHICLE USING SPEED CAMERAS  
SPIN VALVE TRANSISTOR  
SPINTRONICS  
STEGANOGRAPHY  
STORAGE AREA NETWORKS (SAN)  
SURROUND SOUND SYSTEM  
SURVIVABLE NETWORKS SYSTEM  
SYMBIAN  
SYNCHRONISATION  
SYNTHETIC APERTURE RADAR SYSTEM  
Self managing computing system  
Sensors on 3d digitisation  
Shallow water Acoustic Networks  
Sisco  
Smart Pixcell Arrays  
SMART SENSOR  
Survivable Networks Systems  
Solar power satelite  
Self Organizing Maps  
Survivable Networks Systems  
TETRA-TERrestrial Trunked Radio  
Temperature controller [censored] indicator  
TELE-IMMERSION  
TEMPEST AND ECHELON  
TEN 10 GIGABIT ETHERNET  
THE ANATOMY OF GRID  
THE TIGERSHARC PROCESSOR  
THERMAL BARRIER COATING  
THIRD GENERATION OF MOBILE PHONES(3G)  
THOUGHT TRANSLATION DEVICE (TTD)  
TOTAL PRODUCTIVE MAINTENANCE  
TOUCH SCREEN REPORT  
TREATING CARDIAC DISEASES BASED ON CATHETER BASED TISSUE HEATING  
TRIPWIRE  
TEN GB ETHERNET  
UBIQUITOUS COMPUTING  
ULTRA WIDE BAND TECHNOLOGY  
UNICODE SUPPORTS SOLARIS OPERATING ENVIRONMENT

UTILITY FOG  
VISNAV  
Voice morphing  
VDSL  
VIRTUAL KEYBOARD  
VIRTUAL LAN TECHNOLOGY  
VIRTUAL NETWORK COMPUTING  
VIRTUAL SURGERY  
VISIONS OF 4G  
VISNAV  
VISUALISATION  
VLSI COMPUTATIONS"  
VOCABLE  
VOICE MORPHING  
VOICE OVER INTERNET PROTOCOL  
VOICE PORTALS  
VPN  
VLSI COMPUTATIONS"  
VOICE PORTALS  
Virtual Typing  
Virus & Anti viruses  
Virtual Network Computing  
VoCable  
VPN  
Wearable Computers  
WAKE ON LAN  
WAVELET TRANSFORMS  
WAVELET VIDEO PROCESSING TECHNOLOGY  
WDM  
WEARABLE COMPUTERS  
WELDING ROBOTS  
WIDEBAND- OFDM  
WIDEBAND SIGMA DELTA PLL MODULATOR  
WI-FI WIRELESS FIDELITY  
WINDOWS VISTA  
WIRELESS INTERNET SECURITY  
WIRELESS LAN-IEEE 802.11  
WIRLESS INTELLEGENT NETWORKING  
WISE NET  
Wearable Bio-Sensors  
White LED  
Wireless Integrated Network Sensors  
Wankel Engine  
WI FI-wireless fidelity  
XML ENCRYPTION  
ZIGBEE

Reference: <http://www.seminarprojects.com/Thread-computer-science-seminar-topics-list-a-big-bundle#ixzz0olZBa62d>

**THE ROLE OF COMPUTER IN THE  
ADVANCEMENT OF INFORMATION  
TECHNOLOGY**  
VICTOR ENEFIOK NYONG

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- ATTENDANCE MANAGEMENT SYSTEM

### Source code

- GEMINI: Generic Monitoring Infrastructure for Grid System and Applications

### What is grid Computing?

### Details about Generic Infrastructure for Medical Informatics

- district collect orate office information integration

### Project Details

- Automation of ticket booking system for performances

### Ticket Booking System by Jignesh Desai

- Automation of Stock market operations

### Stock Market Application

- IR Based video streaming on mobile phones

### Project Information

### Source Code of video Streaming in Pocket PC

- Security system using IP camera

## [Video Surveillance using C#](#)

### [Article about this project](#)

- Pervasive Computing

### [What is pervasive Computing](#)

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- Online recruitment system(ORS)

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- Embedded web server for remote access

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- Online on-request courses coordination system (ORS)

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- College management software

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- Help Desk (OHD) for the facilities in the campus

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- Development of a microcontroller module for a mobile feed dispenser
- Call Center Management System

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- Auto-summarization tool

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- SMS Games
- SMS based Juke Box
- SMS ticket Reservation

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- Universal Remote using IR on Pocket PC

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- Canteen Automation

It is simmilar to other Managment System Shown above

- Library Management System

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- Billing Systems

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### [Medical Billing System - Visual Basic , VB.NET](#)

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- File system simulation

- Network Print Spooler

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- HTTP Caching Proxy Server
- Vehicle Access Control
- Online leave management system
- Online Library management System ( [Download](#) )
- Online Sales and Inventory management System
- Employee Transfer Application
- Feature-rich, Resume Builder Application
- Safe and secure Internet banking system
- Online internet knowledge management system for the college (KMS).
- Online application for the Training and Placement Dept. of the college
- Repository and Search Engine for Alumni of College (RASE)
- Split screen application for the data entry of the shipments.
- e-Post Office System
- Lost Articles and Letters Reconciliation System
- Student Project Allocation and management with online Testing System (SPM)
- Practical online Testing System (OTS).
- Resource management System (RMS)
- Online Tickets reservation system for Cinema halls.
- Time table generation system for a college.

- User friendly ,feature-rich, practical Appraisal Tracker
- Development of Effort Tracker System
- Feature-rich, practical “Web Enabled Estate Agent”
- Web Based Mail Client
- Work flow based Complaint management System (where the complaints are received through emails)
- Application for receiving orders for printing digital photographs
- work flow based purchase request approval system
- Defect Tracking System (DTS)
- Product Master maintenance system
- Recipe management System
- Employee Separation System (E-Separation System)
- Miles Acquisition System (MAS)
- Network packet sniffer
- Web Based Meeting Scheduler
- Employee Cubicle management System
- Web based Stationery management System
- Online Course Portal for a campus
- Online Auctioning Shop for a campus/organization
- Solving system of linear equations using parallel processing
- Design and development of Point Of Sale [ POS ]
- Design and development of Speed Cash System [ SCS ]

- practical online Survey Tool (OST)
- Web/Email based Search Engine
- Web-based Recruitment Process System for the HR group for a company
- Budget Approval System

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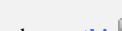
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<a href="#"></a>	<a href="#"><u>system level projects</u></a>	ninad gawade	by <a href="#">ninad gawade</a>	<a href="#"></a>	<a href="#">0</a>	245
<a href="#"></a>	<a href="#"><u>MCA Project</u></a>	sumit	by <a href="#">sumit</a>	<a href="#"></a>	<a href="#">6</a>	1006
<a href="#"></a>	<a href="#"><u>linux</u></a>	zenthil	by <a href="#">zenthil</a>	<a href="#"></a>	<a href="#">0</a>	73
<a href="#"></a>	<a href="#"><u>Remote Monitoring</u></a>	pankaj	by <a href="#">pankaj</a>	<a href="#"></a>	<a href="#">0</a>	82
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<a href="#"><u>Data base design and data mining</u></a>	Funtain	by <a href="#">Funtain</a>	<a href="#"></a>	<a href="#">0</a>	104	
<a href="#"></a>	<a href="#"><u>df</u></a>	prashant	by <a href="#">prashant</a>	<a href="#"></a>	<a href="#">0</a>	68
<a href="#"></a>	<a href="#"><u>related with medicle science</u></a>	Balaji	by <a href="#">Balaji</a>	<a href="#"></a>	<a href="#">0</a>	127
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<a href="#"></a>	<a href="#"><u>C++ mini project</u></a>	Akshi	by <a href="#">Akshi</a>	<a href="#"></a>	<a href="#">0</a>	553
<a href="#"></a>	<a href="#"><u>c++ projects</u></a>	elampirai	by <a href="#">elampirai</a>	<a href="#"></a>	<a href="#">0</a>	117
<a href="#"></a>	<a href="#"><u>Bluettooh based project</u></a>	Roshan Hegde	by <a href="#">Roshan Hegde</a>	<a href="#"></a>	<a href="#">0</a>	131
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	<a href="#">point to point protocol</a> anu	by <a href="#">anu</a>		<a href="#">0</a>	66
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