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Personal Entertainment Network Systems

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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

WYSIWG (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 sign up 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
- 21 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](#)

flag

edited **Mar 11 at 1:18**

community wiki

[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

@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

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

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

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](#)

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

4 Mehرداد, 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.

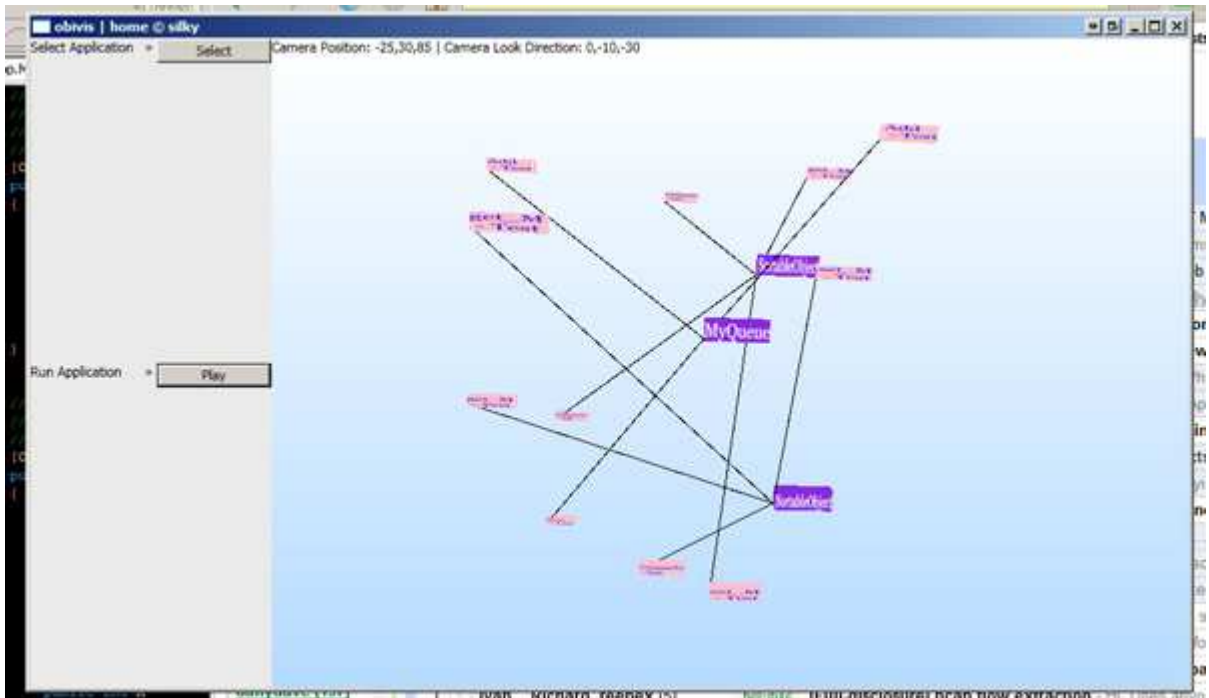
The basic concept is:

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 interested 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.

[link](#) flag

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.

[link](#) flag

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

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

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](#)

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](#)

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

@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 ^ _ ^

[link](#) flag

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).

[link](#) flag

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



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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.

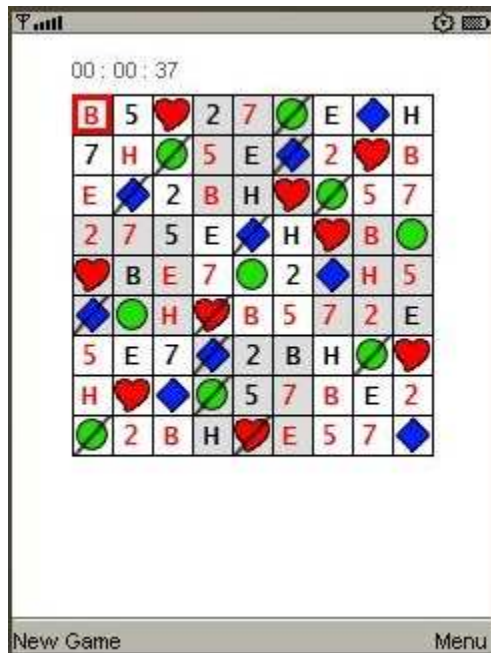
The possibilities are only limited by your imagination.

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](#)

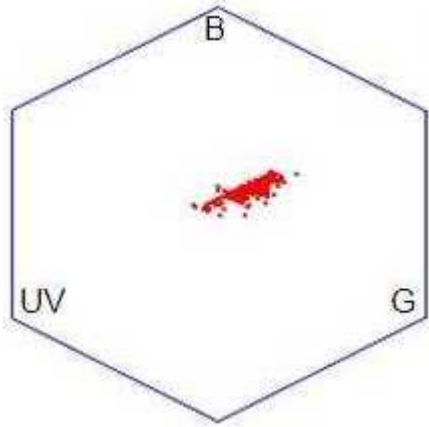
Sudoku on the go



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 sudoku based puzzles for his mobile phone. Using a programming language called J2ME you can program your phone just like a desktop. The new sudoku 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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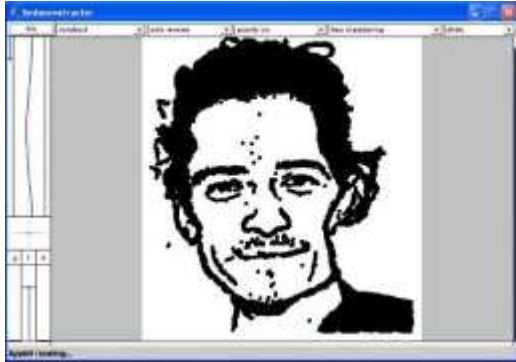
Flower power



If it were not for the bees we would be in trouble. Bees are the main way that flowers get pollinated, as the bees sip 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](http://www.dcs.qmul.ac.uk/sodarace/), and many students projects have been a part of Sodarace. You can try the software for yourself at www.dcs.qmul.ac.uk/sodarace/.

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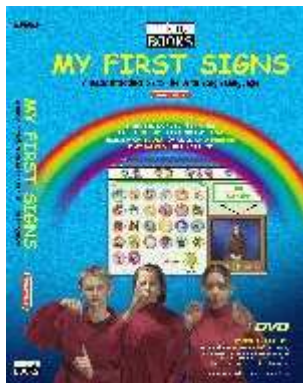
Robot fencing



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 responded 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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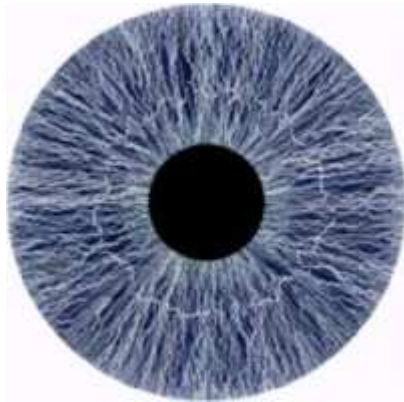
Steganography



















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 wont 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.

	Development of a feature-rich, Employee Transfer Application(using c or java) rajarathnam	by rajarathnam 	12	4226
	performance analysis of location management schemes for mobile IP Parvathi Krishna. G	by Parvathi Krishna. G 	3	1755
	pizza ordering from sms suman bk	by suman bk 	15	3948
	8051 based calculator benokyo	by benokyo 	2	2497
	clevercell phone manager shilpa	by shilpa 	23	4719
	Liveboard Swati	by Swati 	8	3177
	MANAGEMENT IN SOFTWARE COMPANY berlin	by berlin 	11	2737
	Placement Office Automation Rahul Shelke	by Rahul Shelke 	20	3743

	secure streaming to avoid duplication of the files downloaded saraswathi	by saraswathi 	6	2307
	IR Based video streaming on mobile phones bindu	by bindu 	18	3714
	firewire KUMAR PRITAM	by KUMAR PRITAM 	5	3270
	Voice Ove IP Rohan Sinha	by Rohan Sinha 	37	4571
	Bug Tracking System Janarthanan	by Janarthanan 	24	4595
	cd transaction system priyanka	by priyanka 	0	2124
	University Addmision System Suhas	by Suhas 	12	2660

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

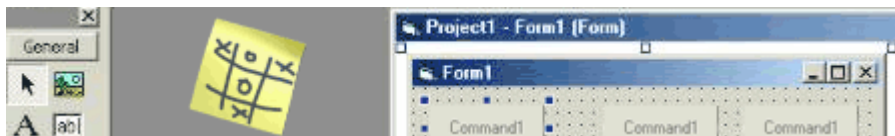
12 Computer science game project ideas

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

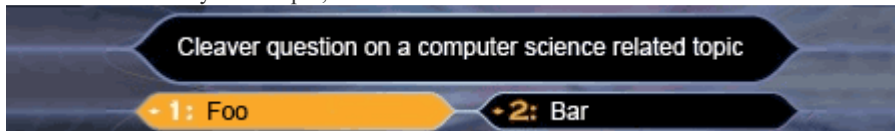
Vanilla flavoured, basic game ideas – classic, easy to make, perfect to get that project over with:



-
- **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.



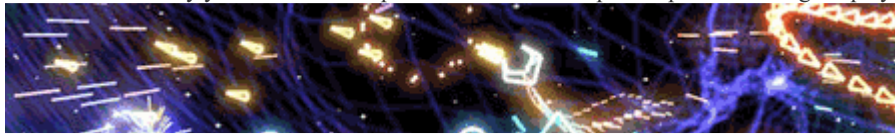
-
- **Bomberman clone** – another fun idea. Your friends from the *Beginner Projects* will gladly start testing bugs out as soon as you get that multiplayer working. Idea is very similar to that in Pacman, but it's 42% more fun when you have power ups! *Super Power Glove!*. Just don't scream "*bomb*"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







































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- **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 reponse 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

blue tooth based temprature controller sandeep r	by sandeep r	10	4547
 university admission system tarunmisser	by tarunmisser	3	1176
 lumprs.inc, Get software and hardware projects here lumprs	by lumprs	2	62
 District Collectorate Office ? Information integration anil kumar	by anil kumar	1	704
 mail specialist kingsley	by kingslev	20	2527
 yourism management mounica	by mounica	2	1553
 Facial Expression tracking Vaishnavi	by Vaishnavi	22	5973

	traffic control using sensor,video camera viraj nimbalkar	by viraj nimbalkar 	20	3594
	Wi-Fi network based project to find the particular persons location aparna shinde	by aparna shinde 	65	6013
	District Collectorate Office Information integration kasimurugan	by kasimurugan 	0	747
	District collectorate Information Integration Anshul Soni	by Anshul Soni 	0	551
	Swarm Intelligence Aneesh	by Aneesh 	10	3107
	district collectorate office information integration p.deepa	by p.deepa 	0	528
	telephony services in call center applications sangeetha	by sangeetha 	0	1012
	speed cash system Anonymous	by Anonymous 	10	5136

	District Collectorate Office ? Information integration mohamed sirajudeen	by mohamed sirajudeen 	0	705
	Video Streaming using Cell Phone with security Abhinav	by Abhinav 	55	7469
	summation Shakti singh	by Shakti singh 	2	979
	Smart Cam Anonymous	by Anonymous 	9	4561
	ibutton based high level security system Anonymous	by Anonymous 	1	2814
	Assessment Of Staff for College Management System Vinayak	by Vinayak 	22	2839
	Expert knowledge assessing systems on automata Rakesh Ranjan	by Rakesh Ranjan 	1	1171
	face recognition anurekha	by anurekha 	47	6229
	online shopping swapna	by swapna 	54	5238
	VEDIO CONFRENSING Priyank Tiwari	by Privank Tiwari 	43	5567

	Smart Planner arun	by arun 	1	1799
	sms ticket reservation karthik	by karthik 	41	4395
	Rendering 3D images on 2D display Ayush Mathur	by Ayush Mathur 	8	2189
	online customer service mahesh	by mahesh 	15	2068

- 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 interelligence to ineternet 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
DIFFSERVER
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
Embedded system in automobiles
Extreme Programming
EDGE
ELECTROMAGNETIC LAUNCHING SYSEM
E BOMB
E INTELLIGENCE
E PAPER TECHNOLOGY
ELECTRONIC DATA INTERCHANGE
ELECTRONIC NOSE
ELECTRONIC NOSE & ITS APPLICATION
ELECTRONICS MEET ANIMALS BRAIN
EMBEDDED
EMBEDDED DRAM
EMBEDDED LINUX

EMBRYONICS APPROACH TOWARDS INTEGRATED CIRCUITS

EMNA

EUVL

EXT3

EXTREME PROGRAMMING

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
INTERACTIVE VOICE RESPONSE SYSTEM
INTERNET ARCHITECTURE AND ROUTING
IP SPOOFING
IRIS SCANNING
ISOLOOP MAGNETIC COUPLERS
ITANIUM PROCESSOR
Integrated Power Electronics Module
Integration of information technology in machine tools
INTEL CENTRINO MOBILE TECHNOLOGY
Interactive Voice Response System
JAVA CARD
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
MP3 ENCODING
MPEG
MPEG-7
MRAM
MULTI PROTOCOL LABEL SWITCHING
MULTI SENSOR FUSION AND INTEGRATION
MULTICAST
MULTIMEDIA MESSAGING SERVICE (MMS)
MULTITERABIT NETWORKS
mems
Nanotechnology
NAS
NVT

NRAM
NANOTECHNOLOGY
NARROWBAND AND BROADBAND ISDN
NAVBELT AND GUIDECANE
NETWORK ATTACHED STORAGE (NAS)
NEURAL NETWORKS AND THEIR APPLICATIONS
NON VISIBLE IMAGING
NRAM
Optical Satellite Communication
OOT
OPEN RAN
OPEN SOURCE DEVELOPMENT WITH CVS
OPTICAL COHERENCE TOMOGRAPHY
OPTICAL ETHERNET
OPTICAL PACKET SWITCHING
OPTICAL PACKET SWITCH ARCHITECTURES ORIGINAL
OPTICAL SATELLITE COMMUNICATION
OPTICAL SWITCHING
ORGANIC ELECTRONICS
ORGANIC LED
ORION - CEV
OVONIC UNIFIED MEMORY
OpenRAN
Optical coherence tomography
Organic Electronics
Organic Light Emitting Diodes
Optical Computing
Optical switching
Ovonic unified memory
PARASITIC COMPUTING
PH Control Technique using Fuzzy Logic
Pivot Vector Space Approach in Audio-Video Mixing
Polymer Memory
PRODUCTION AND MANUFACTURING ISSUES
Passive integration
Plasma Display
Project Oxygen
PebbleBedReactors
PALLADIUM
PARA LEGAL AID PROGRAMME
PARALLEL COMPUTING IN INDIA
PARASITIC COMPUTING
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 CONTINGENCIES

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
ROBOTICS
Robotic surgery
Radio frequency light sources
RD ram
RESILIENT PACKET RING Networks
RFID technology
RTOS - Vx WORKS
RAID
RPR
SATRACK
Solar cars
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
SATRACK
SEASONAL INFLUENCES ON SAFETY OF SUBSTATION GROUNDING SYSTEMS
SECURITY FEATURES IN SE-LINUX
SELF MANAGING COMPUTING SYSTEM
SELF ORGANIZING MAPS
SENSORS ON 3D DIGITIZATION
SENSOTRONIC BRAKE CONTROL
SESSION INITIATION PROTOCOL
SILC

SIMPUTER
SKID STEER LOADER AND MULTI TERRAIN LOADER
SMART CAMERA FOR TRAFFIC SURVEILLANCE
SMART CARDS
SMART DUST
SMART EDIT
SMART PIXEL ARRAYS
SMART QUILL
SMART SENSOR
SMF COUPLER
SOFTWARE IN MEDICAL IMAGING
SPACE SHUTTLES 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
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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 satellite
Self Organizing Maps
Survivable Networks Systems
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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
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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 fidity
XML ENCRYPTION
ZIGBEE

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

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Computer final year project ideas

- 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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- Embbeded web server for remote access

[Free embedded Ethernet](#)

[CodeProject Emebedded Server Project](#)

- Online on-request courses coordiation system (ORS)

[Templete of Various Documents of this Project from Sourcecodeworld.com \(doc\)](#)

- 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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- File Transfer using PSTN

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- Security system using IP Camera

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- Virtual Router

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- Auto-summarization tool

[Download Report of this Project \(Pdf \)](#) <- Right click and save target as or save link as

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

[Sms Source Code Website](#)

- Universal Remote using IR on Pocket PC

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- Canteen Automation

It is similar to other Management System Shown above

- Library Management System

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- Billing Systems

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

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[SMART BILLING 1.0 - Visual Basic , VB.NET](#)

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[Billing & Customer Account Maintenance System - Visual Basic , VB.NET](#)

- File system simulation















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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 scree 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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Computer Science Project Ideas

Source: Webmaster-Talk.com

hi..i am a final year computer engineering student..i need 2search for a gud final year project..i have been having many probz with finalizing on a particular project idea..it would be really great of you if u could help me with some sites where i can get good project ideas with some description..i am more interested in d networking and artificial intelligence domains..also if any of you have... [Read more...](#)

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