Projects for Students

List of Silver Class Projects

ELECTRONIC ALARM DELAY FOR ALARM CLOCK

TUNING INDICATOR FOR RADIO RECEIVER

SOLIDSTATE EMERGENCY LIGHT

AUTOMATIC POLARITY CHANGEOVER FOR MULTIMETERS

CRYSTAL-CONTROLLED DIGITAL CLOCK

FUNCTION GENERATOR

PROPORTIONAL POWER CONTROL USING SCR

INTRUDER ALARM

HEARING AID

MANUAL AC MAINS REGULATOR

PROTO-EXPERIMENTER FOR BREADBOARDING IC CIRCUITS

SOLIDSTATE STARTING TIME DELAYER

RECHARGEABLE NI-CD TORCH

LOW COST POWER SUPPLY FOR DIGITAL ICS

ALARM PROTECTION BY AUTOMATIC SILENCING AFTER A PRESET DELAY

STEREO TAPE CASSETTE PLAYER

CONTROL WATER LEVEL IN OVERHEAD TANK AUTOMATICALLY

LIGHT BEAM CONTROLLED TOGGLING SWITCH FOR REMOTE CONTROL

VERSATILE INTERCOM

ELECTRONIC TIMER WITH AUDIO ALARM

MANUAL VOLTAGE STABILIZER TO AN AUTOMATIC STABILIZER

HIGH / LOW VOLTAGE CUTOUT TO SUIT ANY DELAY AND RELAY

MUSICAL MELODY SYNTHESIZER

AUTOMATIC VOLTAGE REGULATOR

BATTERY STATE INDICATOR

3-BAND RADIO RECEIVER USING BEL 7000 IC

HIGHLY VERSATILE DC POWER SUPPLY

BOATMAN'S PUZZLE

CURRENT LIMITING FACILITY TO YOUR DC POWER SUPPLY

VERSATILE TOUCH PLATE

MUSICAL KALEIDOSCOPE

PULSE GENERATOR USING ICS

TIMER INTERVAL SETTER

AC MAINS VOLTAGE REGULATOR USING AN IC

STEREO CASSETTE PREAMPLIFIER

SECONDS BLINKER TO DIGITAL CLOCK

A LADDER CRYSTAL FILTER RECEIVER

REVERB AMPLIFIER

DESIGN OF POWER SUPPLY TRANSFORMER

TWO-WAY INTERCOM

SIMPLE LED CONTINUITY CHECKER

WAIT PLEASE INDICATOR

TRANSMITTER

EXCLUSIVE OR AND OR GATES WORK WITHOUT POWER SUPPLY

SEMICONDUCTORS TESTER

SPLIT PHASE POWER SUPPLY

A PHOTOFLASH SLAVE FOR ELECTRONIC FLASH

PORTABLE 50 Hz SOURCE

AUTOMATIC RISE AND FALL SIREN

ELECTRONIC ORGAN

SELF-REGULATING BATTERY CHARGER WITH SHORT-CKT PROTECTION

MINIATURE HEARING AID

CHANGEOVER SWITCH WITH BUILT-IN PRIORITY

BINARY STATE INDICATOR

A UNIVERSAL SCHMITT TRIGGER

MAINS LAMB FLASHER WITH ADDED ATTRACTIONS

PHYCHEDELIC LIGHTS

FOLDOVER CIRCUIT

SIMPLE SECURITY SYSTEM

MULTI-CHANNEL INTERCOM

ELECTRONIC ORGAN

RAIN ALARM

AM TRANSMITTER

METRONOME

LOAD CURRENT CAPACITY

ELECTRONIC PARROT

BATTERY LEVEL INDICATOR

IC 555 AS ANALOG SWITCH FOR POSITIVE SIGNALS

TELEPHONE AMPLIFIER

SIMPLE ELECTRONIC MULTIMETER

DELAY SWITCH

AUTO TEST CIRCUIT FOR DISPLAYS & ICS

WATER LEVEL INDICATOR

ELECTRIC GUITAR

LIGHT ACTIVATED SWITCH

LOUDSPEAKER AS A MICROPHONE

ELECTRONIC METHOD TO MEASURE VELOCITY OF SOUND

SIMPLE ELECTRIC LOCK

TWEETER BELL

DIODE TESTER

SIMPLE CLOCK GENERATOR FOR TTL WORK

ONE TRANSISTOR GRAMOPHONE TRANSMITTER

WATER LEVEL CONTROLLER

SIMPLE POWER ON RESET CIRCUIT

DUAL FUNCTION METER

LIGHT TO FREQUENCY CONVERTER

VOLTAGE TO FREQUENCY CONVERTER

BICYCLE TURNING INDICATOR

EMERGENCY LAMP

POLARITY OR NULL INDICATOR

HI-FI AMPLIFIER FOR CERAMIC PICK-UPS

REGULATED DC POWER SUPPLY

LED TRANSISTOR TESTER

LIGHT ACTIVATED ALARM

COUNTER USING CALCULATOR

EMERGENCY LIGHT

VARIABLE FREQUENCY ASTABLE MULTIVIBRATOR - USING NAND GATES

NEON LAMP LEAKAGE TESTER

AUDIO TESTER

TOY TELEPHONE

STEREO BALANCE INDICTOR

OVERHEAT INDICATOR

DC VOLTAGE LEVEL MONITOR INDICATOR

MW TRANSMITTER

LED BARGRAPH VOLTMETER

LOW COST SYNCHRONOUS SWITCHING HEAT - STAGING

CONTROLLER

SINGLE PHASE PREVENTER

DRY CELL RECHARGER FOR THREE CELLS

ELECTRONIC FLASHER

TESTING OF SCRS AND TRIACS ON MULTIMETER

BISTABLE TOUCH SWITCH

BATTERY ELIMINATOR WITH EMERGENCY LIGHT

DIGITAL ELECTRONIC COUNTER

LED FLASHER

VARIABLE REGULATED VOLTAGE BATTERY ELIMINATOR

CUM REDUCING CIRCUITS

A SIMPLE SOFT START CIRCUIT

CHIRPING BIRDS CIRCUIT

C METER

ULTIMATE DECIDER

PCB MAKING

IC POWER SUPPLY

THREE OUTSTATION INTERCOM FOR HOME

FUNCTIONING OF WATER LEVEL ALARM CIRCUITS

741 CKTS

MEDIUM WAVE POCKET RECEIVER USING A SINGLE PENLIGHT CELL

INVERTER FOR PORTABLE ILLUMINATOR

MULTIVIBRATOR CURCUITS

AC MAINS VOLTAGE LIMITS INDICATOR

5- DIGIT INTERRUPTION COUNTER

TEMPERATURE CONTROL OF PRESSURISED CHAMBER

ENHANCED POWER SUPPLY CIRCUIT

3-IN-1 TEST EQUIPMENT

SAFETY GROUND

DIGITAL VOLT-OHMMETER CUM THERMOMETER

BIAS OSCILLATOR FOR TAPE RECORDER

LED DANCING LIGHT ARRAY FOR STEREO SYSTEMS

SINGLE-IC STEREO AMPLIFIER

A TINY CRANE CURCUIT FOR LIFTING DELICATE ITEMS

A SOLIDSTATE VOLTAGE INDICATOR WITH ALARM

TRANSISTORISED DIP METER

CA810 POWER IC CKT

FLASHERS

CAPACITANCE METER

STEREO AMPLIFIER

DISCO LIGHTS

PRINTED CIRCUIT BOARD WITH A PROFESSIONAL TOUCH

RANDOM RUNNING LAMPS

SINGLE TRANSISTOR AM &IF OSCILLATOR

DC MILLIVOLTMETER WITH POLARITY INDICATOR

ELECTROCARDIOGRAPH USING AN OSCILLOSCOPE AND A CAMERA

LONG DURATION TIMER

MINIATURE TRANSMITTER

MUSICAL/PSSYCHEDELIC LIGHTS

VARIABLE DUAL POLARITY POWER SUPPLY

MATCHING 8-OHM SPEAKER OUTPUT TO A HIGH IMPEDANCE AMPLIFIER

STEREO AMPLIFIER POWER SUPPLY

INFRA-RED BURGLAR ALARM

TWILIGHT SWITCH

STEADY HAND TESTING CIRCUITS

6-VOLT SUPPLY FROM CAR BATTERY

SINGLE CHIP 0- TO 360 DEGREE - PHASE SHIFTER

MULTI PURPOSE CIRCUIT

AUTOMATIC SWITCH-OFF FOR RADIO

DAY INDICATOR FOR DIGITAL CLOCKS

BATTERY ELIMINATOR WITH LED INDICATORS

DIGITAL ELECTRONIC DIE

ACCURATE TIMER USING CD 4045

PEAK LEVEL INDICATOR

VERSATILE REGULATED POWER SUPPLY

TOUCH SWITCH USING 555

STANDBY ARRANGEMENT FOR DIGITAL CLOCK

SCR TESTER

SUPPLY FAILURE INDICATOR

AUTO CIRCUIT CHECKER

PANORAMA CONTROL FOR STEREOS

ELECTRONIC GONG

MINIATURE LAMP FLASHER

CONTINUITY CHECKER

A NOVEL DARK ROOM TIMER

LOW-COST CRYSTAL TESTER
SIMPLE REGULATED POWER SUPPLY
A SINGLE IC VERSATILE PULSE GENERATOR
1MHZ CRYSTAL OSCILLATOR
TIME DELAY CIRCUIT FOR PROTECTING A REFRIGERATOR
ALL-PURPOSE LATCH-UP SWITCH
3.5W AUDIO AMPLIFIER
SOUND OPERATED SWITCH
MAINS HUM FILTER FOR AUDIO CIRCUITS
A SINGLE TOUCH MULTI CONTROL SWITCH
BATTERY ELIMINATOR WITHOUT TAPPING TRANSFORMER
THREE WAY CROSSOVER NETWORK
SLOW RISING SIRENS
TESTING A TRANSISTOR WITHOUT A TRANSISTOR TESTER
A SIMPLE `JAM` CIRCUIT
OP-AMP TONE CONTROL
PULSE NARROWING AND PULSE STRETCHING CIRCUITS
SINGING BIRD BELL
VOLTAGE CONTROL AMPLIFIER
CONTINUITY TESTER
A SIMPLE FUNCTION GENERATOR USING 555 TIMER
ALTERNATE LED BLINKER USING 555
A LIMITED PULSER
A SIMPLE LOGIC PROBE
AUTOMATIC BATTERY CHARGER

PULSE GENERATOR CUM TIMER
ADJUSTABLE RIPPLE REGULATED POWER SUPPLY
DIGITAL LED VOLTMETER
BEEPER CUM FLASHER
POWER AMPLIFIERS
WATER LEVEL CONTROLLER
TEMPERATURE DEVIATION INDICATOR
AUTOMATIC EMERGENCY TUBELIGHT
DIGITAL BIRTH DATE TELLER AS A PARTY GAME
A DIGITAL CLOCK USING ORDINARY COMPONENTS
EXTEND CAPABILITIES OF THIS DIGITAL CLOCK
CASSETTE TAPE RECODER USING BEL 700 IC
WATER TANK GAUGE

SIGNAL INJECTOR

5-STATE LOGIC PROBE

ELECTRONICS FUSE SAVE PRECIOUS MAINS OPERATED GADGETS

SINGLE PHASING PREVENTER

LONG DURATION TIMER

DIGITAL STD CALL METER

NON-DESTRUCTIVE POWER SUPPLY

TUNING INDICATORS FOR RADIO RECEIVERS

METAL DETECTOR

AUTOMATIC TRAFFIC LIGHTS MODEL

PREAMPLIFIER CIRCUITS

OFFICE CALL BELL SYSTEM

ELECTRONIC PACHISI GAME

TELEVISAGE TO LOCATE YOUR PHONE IN THE DARK

ELECTRONIC HORNS FOR CARS

A SNOOZE SWITCH FOR MECHANICAL ALARM CLOCKS

LED ANALOGUE CLOCK

AN AUTOMATIC EMERGENCY LIGHT WITH DUAL LIGHT PROVISION

A CAR BATTERY SYSTEM ANALYSER

SIREN

AUDIO LEVEL INDICATOR

LIGHTS DIMMER

REGULATED POWER SUPPLY WITH DUAL PURPOSE LED

STROBE LIGHT

BATTERY CHANVEOVER RELAY

SPIKES-FREE POWER CONTROL

A VARIABLE AUDIO FREQUENCY OSCILLATOR

BURGLAR ALARM

FIRE ALARM

DECADE SEQUENCER WITH DISPLAY

AD-ON CIRCUIT FOR CURRENT MEASUREMENT

SOUND OPERATED RELAY

SEQUENTIAL TIMER

BEEPER USING IC 555

LED TUNING INDICATOR

TWILIGHT SWITCH

PHOTOELECTRIC SWITCH

TELEPHONE AMPLIFIER USING IC 7000

LOW COST LONG DISTANCE INTERCOM

REGULATED SUPPLY FOR OPAMPS

GUITAR BROADCASTER

DEBOUNCING CIRCUIT

FALSE TRIGGERING ELIMINATION IN 555 ICS

WHO'S THE FIRST CKT

AM TRANSMITTER

DUAL LINE REGULATED POWER SUPPLY

BATTERY STATE INDICATOR

AUDIO DISTORTION TESTER

AUDIO TIMER

VERSATILE SHORT PROOF POWER SUPPLY FOR EXPERIMENTS

LOGIC / LOGIC PULSER

UNDER / OVER VOLTAGE PROTECTION TO FRIDGE

LOW VOLTAGE INDICATOR

AUTOMATIC WATER LEVEL MONITOR

POLICE SIREN

NOVEL BURGLAR ALARM

A 4 BIT DIGITAL TO ANALOGUE CONVERTER

DUAL DC POWER SUPPLY

BASS AND TREBLE CONTROLS FOR STEREO SYSTEMS

REPLACING EF86 WITH SOLIDSTATE CIRCUITRY

BATERY CHARGER CUM ELIMINATOR

AUTOMATIC PARKING LIGHTS

SQUARE WAVE GENERATOR USING IC 555

SOUND EFFECTS GENERATOR

4 CHANNEL AUDIO MIXER

VARIABLE DUTY CYCLE OSCILLATOR

SINGLE TRANSISTOR AUDIO TUNER

NEXTER

8 BIT DATA FROM KEYBOARD

COIN TOSSER

CHOOSING THE FASTER GATE

TRANSISTORISED TOUCH SWITCH

VARIABLE HYSTERESIS COMPARATOR

THREE VOLTAGES FROM BRIDGE RECTIFIERS

A DELAY RELAY

AUTOMATIC DEFROSTER

ELECTRONIC COLOROSCOPE

CALLING BELL WITH MEMORY

CAR LIGHTS ON INDICATOR

TRAFFIC LIGHTS MODEL

MINI EMERGENCY LIGHT

HEAVY DUTY REGULATED POWER SUPPLY

16 BIT TO ANY SET OF 8 BIT GANG SELECTOR

SPARK SUPPRESSOR

SINGLE TRANSISTOR LDR ALARM

0-24 V REGULATED DC POWER SUPPLY

100 WATT FREQUENCY CONTROLLED INVERTER

SANGUINOSCOPE

DIGITAL COMBINATION LOCK FOR CARS

ELECTRONIC LUCK TESTER

SINGLE CHIP LATCH UP ALARM

ELECTRONIC SIREN FOR CIVIL DEFENCE AND TIME INDICATION

REMOTE INDICATING ELECTRONIC WEIGHING MACHINE

THE FIRST & SECOND GENERATION OFFICE CALL BELL SYSTEM

AUTO WAH FOR YOUR GUITAR

DIGITAL CALENDER SHOWING DAY DATE AND MONTH

DIGITAL CONTROL OF MACHINE

THE OPTO FINISH REPORTAGE

POWER SUPPLY WITH PLUS FEATURES

CAR VOLTMETER WITH LED DISPLAY

HANDHELD MW RECIEVER

AUTO SHUT OFF DOOR LOCK ALARM

PRESSURE MONITOR

LINEAR SCALE ELECTRONIC OHMMETER

TV PATTERN GENERATOR

SHOCK HAZARD WARNING GENERATORS

MUSICAL DOOR BELL

DIGITAL SCORE DISPLAY BOARD

Q MASTER FOR JAM SESSION

ELECTRONIC STEAM ENGINE SOUND SIMULATOR

VERSATILE DIGITAL TIMER

A DAY INDICATOR WITH ALPHABETICAL DISPLAY

25 + 25 WATT STEREO SYSTEM

SELECTIVE TV SIGNAL BOOSTER

LED CONTROL CKT FAULT INDICATOR

GRAPHIC EQUILISER

TOUCH SWITCH

LED SEMICONDUCTOR TESTER

METRONOME

RUNNING WHEEL

TWO WAY REMOTE ALARM

AUTO POWER OFF CONTROLOR FOR TAPE RECORDERS

MOSQUITO REPELLER

A SIMPLE SINGING BIRD CIRCUIT

ASYMMETRICAL ASTABLE USING SINGLE IC 741

MAKE YOUR OWN 7 SEGMENT LED DISPLAYS

SELF RESETTING INTRUDER ALARM

0-25 V, 1 A REGULATED POWER SUPPLY

SQUARE WAVE OSCILLATOR

ELECTRONIC THERMOSTAT

SQUENTIAL RUNNING LIGHTS

KEY BOUNCE ELIMINATOR FOR SINGLE CONTACT KEY

BAR GRAPH MAINS VOLTAGE INDICATOR

CMOS / TTL VERSATILE TEST / PROBE

HIGH QUALITY NOISE FILTER

AUTO SHUT OFF FOR RADIO

CROSSOVER NETWORK

RUNNING LEDS

A TRANSFORMERLESS EMERGENCY LAMP WITH OPTIONAL UNDERVOLTAGE NDICATION

CONTINUITY CHECKER DOUBLES AS SIGNAL SOURCE

A SIMPLE INTERCOM

SQUENTIAL LIGHT DISPLAY USING RELAYS

NEGATIVE VOLTAGE SUPPLY FROM SINGLE POSSITIVE VOLTAGE

MOTOR OVERHEATING PREVENTER

SOLIDSTATE EMERGENCY LIGHT

RHYTHMIC TIMER

TWO TERMINAL TIMER FOR PRESET CONTROL OF ELECTRIC LAMPS

SOUND EFFECT EQUALISER

ELECTRONIC LTOSS

BURGLAR ALARM

CYCLIC LIGHTS

RAIN DETECTOR

AMBIENCE CIRCUIT FOR STEREOS

SIMPLE TOUCH SWITCH

FAN REGULATOR CUM LIGHT DIMMER

A THREE OCTAVE ORGAN

MUSICAL SOUND GENERATOR

WHO'S FIRST SINGLE CHIP GAME

CAR BATTERY VOLTAGE BOOSTER

2000 VA INTERTER

CARRIER FAILURE INDICATOR

AF SIGNAL GENERATOR

TV BAR GENERATOR

CHECK THE SWITCH ON SURGES

FEEDER PROTECTOR

AUTOMATIC BATTERY SWITCHING FOR DIGITAL CLOCKS

A LOW COST TRANSFORMERLESS TV POWER SUPPLY

ANTI THEFT ALARM

SOLIDSTATE EMERGENCY LAMP USING AN OPTO COUPLER

TRANSISTORISED TOUCH SWITCH

IN / OUT INDICATOR

DIGITAL STOPWATCH

A VERSATILE WAVEFORM GENERATOR

DIGITAL IC TESTER

2-BAND HI-FI RECEIVER

NOVEL METERLESS MULTIMETER WITH LED INDICATION

THE ELECTRONIC THUMBWHEEL SWITCH

PROGRAMMABLE MUSICAL TUNE GENERATOR

REFLEX TESTER

WATER LEVEL INDICATOR CUM CONTROLLER

PORTABLE DIGITAL MULTIMETER WITH LIQUID CRYSTAL DISPLAY

REGULATED BIPOLAR-OUTPUT DC-DC CONVERTER

MULTIPURPOSE TONE AND SOUND SYNTHESISER

DUAL POWER SUPPLY FOR OP-AMPS

TRANSISTOR LEAD IDENTIFIER CUM TESTER

UTILITY DOOR-BELL

LED DIAL CLOCK

THE MIND READER

ELECTRONIC CAPACITANCE METER
FUNCTION GENERATOR
ANALOGUE FREQUENCY METER
20W+20W STEREO AMPLIFIER
DDIGITAL CHANNEL INDICATORS
THE DELAY SWITCH
BURGLAR ALARM TO PROTECT YOUR HOME
FOUR-IN-ONE TELEPHONE
ADJUSTABLE REGULATED POWER SUPPLY UNIT
MACHINE GUN SOUND SIMULATOR
2KW ILLUMINATION CONTROLLER
25-WATT POWER AMPLIFIER
THREE-IN-ONE TESTER
HOUR STRIKING CIRCUIT
DXING RECEIVER
MULTIMETER TO READ FREQUENCY
UNDER AND OVER VOLTAGE PROTECTOR
SIMPLE BATTERY STATE INDICATOR
KEEPING THE IRON WARM
ON-DELAY TIMER CIRCUIT
MAINS INDICATOR WITH AUDIO ALARM
STEADY HAND TESTING GAME
MESSAGE INDICATOR
CAR BATTERY CHARGER CUM BATTERY ELIMINATOR
IC TRANSMITTER
FUSE FAILURE INDICATORS
AN ELECTRONIC HARMONIUM
ELECTRONIC DICE
LOW-COST PSYCHEDELIC LIGHTS
CLAP SWITCH
A SIMPLE CLOCK RADIO
ELECTRONIC DICE86
PRECISION OVER-CURRENT PROTECTION
AUTOMATIC REGRIGERATOR DEFROSTER
PILOT LAMP DOES DOUBLE DUTY
DAY INDICATOR
SOLIDSTATE RELAY
REGULATED POWER SUPPLY
MULTIPURPOSE AUTO SHUT-OFF SWITCH

AUTOMATIC POWER FAILURE INDICATOR FOR DIGITAL CLOCKS

SHORT CIRCUIT PROTECTION DEVICE

MUSICAL BELL REPEATER

SOLIDSTATE GUITAR PRACTICE AMPLIFIER

LIGHTNING CHESS TIMER

LOW SPEED COUNTER USING CALCULATOR

MULTIPLE AMPLIFIER SYSTEM

SINGLE PHASE PREVENTER USING OPTOCOUPLERS

DIODE TESTER CUM CONTINUITY CHECKER

EMERGENCY LIGHT CUM POWER FAILURE INDICATOR WITH ALARM

VARIABLE POWER SUPPLY

KILOVOLT GENERATOR

OP-AMP IC TESTER

TTL PROBE

REMOTE OPERATION OF DIESEL GENERATOR SET

A SIMPLE MUSICAL TOY

LOGIC STATE INDICATOR CUM MANUAL CLOCK

ELECTRONIC DICE

AF/IF SIGNAL GENERATOR

A BEDROOM NIGHT LAMP

THE COWS AND BULL GAME

STEREO CASSETTE DECK FOR SUPERB SOUND REPRODUCTIN

AN ELECTRONIC DICE

CHECK YOUR GRIP WITH THIS GRIPOSCOPE

TELELISTEN UNIT FOR LISTENING TV PROGRAMMES

TV RECEIVER CUM VIDEO MONITOR

A FULL FEATURED ELECTRONIC TOUCH ORGAN

HEAVY DUTY BATTERY CHARGER WITH OVERCURRENT CUTOUT

TELEPHONE INDICATORS USING LEDS

ADJUSTABLE VOLTAGE POWER SUPPLY USING LM 317

CONTINUITY TESTER WITH AUDIO INDICATION

EPROM COPIER USING MICRPOROCESSOR KIT

FIRE ALARM SYSTEM

ELECTRONIC VOTING MACHINE

TEMPERATURE CONTROLLER

GIANT SCREEN TV WALL PROJECTOR

A TOUCH SWITCH ASCII KEYBOARD

AF RF SIGNAL GENERATOR

BFO - CUM - FREQUENCY MARKER PLUS IF AND MW ALIGNMENT TOOL

SMPS POWER SUPPLY FOR SOLIDSTATE B&W TV RECEIVER

ELECTRONIC ROULETTE WHEEL

SEMI AUTOMATIC REMOVE CONTROL FOR A DIESEL GENERATOR

PIPS AND ALARM FOR LED DIAL CLOCK

5 TO 200 V STABLISER POWER SUPPLY

ELECTRONIC ANALOGUE MULTIMETER

ADD HOURLY CHIME TO YOUR DIGITAL CLOCK

BLOWN FUSE INDICATOR

IMPROVE YOUR DIGITAL CLOCK

FM SIGNAL GENERATOR

TAPE CASSETTE COPIER

14 IN-1 MULTIPURPOSE CIRCUIT

150 WATT INVERTER

MULTIRANGE AF SIGNAL INJECTOR

CALL BELL SYSTEM

AUTOMATIC SIGNALLING SYSTEM FOR TRAIN MODEL

ELECTRONIC ROULETTE GAME

DUAL PULSING RELAY TIMER USING IC 555

AUTOMOBILE FLASHER

LOW POWER PILOT LAMP (LPPL)

ELECTRONIC THERMOMETER FOR ROOM TEMPERATURE

ELECTRONIC FISH CALLER

HOURLY TIME SIGNAL ADD ON CIRCUIT

OFFICE BELL WITH IN / OUT INDICATOR

REMOTE OPTICAL SWITCH

AUTOMATIC MAST LIGHT SWITCH

IMPEDANCE BOOSTER FOR MULTIMETERS

DE THUMP CIRCUIT FOR AF AMPLIFIERS

LISTENING BUG

MIND READER USING DIGITAL DISPLAY

IC FUZZ FOR GUITAR

POWER FAILURE INDICATOR

SLAVE FLASH UNIT

DIGITAL CHANNEL INDICATOR

ELECTRONIC LATCH CIRCUIT

SIMPLE AUTO WAA WAA

LEAKY CAPACITOR TESTER

SIMPLE LOGIC PROBL

RECORDING / PLAY INDICATORS FOR CASSETTE TAPE RECORDERS

SLAVE FLASH UNIT

TIMER SWITCH FOR WATER HEATERS

LIGHT MUSIC CIRCUIT

INVERTER CIRCUIT FOR 20 W FLUORESCENT TUBE

PROGRAMMABLE VOLUME CONTROL

CMOS DIGITAL PULSE / EVENT COUNTER

OPTO TREMELO UNIT FOR GUITAR TELEPHONE EXTENSION RINGER

TELEPHONE EXTENSION RINGER

FRIDGE THERMOSTAT

ELECTRONIC IN / OUT INDICATOR

CALL BELL WITH MEMORY

DELAY TIMER FOR DOOR BELLS

DANCING LIGHTS / SOUND LEVEL INDICATOR

EMERGENCY LAMP

UNDER / OVER VOLTAGE INDICATOR FOR TTL POWER SUPPLY

DIGITAL CLOCK USING DC PLASMA DISPLAYS

A VERSATILE CONTROLLER

AMBULANCE SIREN

INEXPENSIVE MULTITESTER

REMOTE LOAD ON MONITOR TO REMIND LIGHTES-ON

CALLING BELL WITH AUTO SHUT OFF

SOUND OPERATED SWITCH

HEXADECIMAL DISPLAY CIRCUIT

LOW COST MINI AMPLIFIER'S APPLICATIONS

VOLTAGE SURGE PROTECTOR CUM EMERGENCY LIGHT

MINI ELECTRONIC VOTING MACHINE

ELECTRONIC AUTO DIPPER

QUICK 741 AND 555 TESTER

OBJECT COUNTER USING CMOS ICS

A GAME OF STEADY HANDS

ENVELOPE FOLLOWING FOR GUITARS AND ORGANS

AUTOMATIC TANK FILLING CUM PUMP HOUSE SYSTEM

REMOVE CONTROL FOR TV AND HI-FI

VHF TV BOOSER

RADIO CASSETTE RECORDER (TWO-IN-ONE)

12-TUNE MUSICAL DOORBELL

CAR CLOCK MODULE

VIDEO CAR RACING GAME

SOUND ACTIVATED FLASH FOR STOP ACTION PHOTOGRAPHY

120 w + 120 w STEREO AMPLIFIER

STEREO CONTROL CUM PREAMPLIFIER FOR 120 w + 120 w AMPLIFIER

MULTIPLE PROGRAM TIMER USING SINCLAIR SPECTRUM MICRO

10 BAND GRAPHIC EQUILISER

INEXPENSIVE TV ANTENNA

VERSATILE TESTER WITH AUDIO INDICATION

STD / LOCAL BAR TO PREVENT OVERCHARGING

AN LED SPEEDOMETER FOR TWO WHEELER

TRAFFIC LIGHT CONTROL SYSTEM

DIGITAL TACHOMETER

TWO-WAY DOORBELL WITH MEMORY

LOW RESISTANCE MEASURING METER

MINIATURE RUNNING LIGHTS

ZENER DIODE TESTER CUM CALIBRATOR

MULTIWAY SWITCHES

LED DIRECTION INDICATOR

SW AM BOOSTER FOR VALVE RADIO

SIMPLE TEMPERATURE CONTROLLER

SIMPLE SAWTOOTH GENERATOR

ELECTRONIC PHONE LOCK

CONDENSER MIKE AMPLIFIER

FIELD FAILURE PROTECTION FOR DC MOTORS

SIMPLE AM RADIO TRAMSMITTER

INEXPENSIVE ELECTRONIC SWITCH FOR AUDIO SIGNAL

BOATMAN'S PUZZLE GAME USING SINGLE IC

4 BIT BINARY TO BCD CONVERTER

SIMPLE FLASHER USING UJT

BULLS AND COWS GAME

VHF TV MODULATOR

SIMPLE NI-CD BATERY CHARGER

TROUBLESOME TUBELIGHT

OVERVOLTAGE CUTOUT USING IC 723

RUNNING LIGHT EFFECT

CAR BURGLAR DETERRENT

ELECTRONIC CONGO

IC SPEED CONTROL FOR SMALL DC MOTORS

LOW COST TRANSISTORISED INTERCOM

HEADS FOR TAILS SIMULATOR

A SIMPLE AF FILTER

AUTOMATIC BATHROOM / TOILET LIGHT

ONE SECOND MASTER OSCILLATOR

VISUAL INDICATOR FOR ELECTRONIC DOORBELL

LIGHT PULSE ACTIVATED ON / OFF DELAY

ELECTRIC FENCE / WINDOW CHARGER

AUTOMOBILE FLASHER

TIMER WITH ON / OFF DELAY

BLOWN FUSE INDICATOR

NEON INDICATORS FOR AF AMPLIFIER

SIMPLE LOGIC PROBE

SELF RESETTING LDR ALARM

BACK UP SUPPLY FOR CALCULATORS

A NOVEL TANK LEVEL CONTROLLER

BURGLAR ALARM

POWER ON CUM BLOWN FUSE INDICATOR USING SINGLE LED

ELECTRONICS TOSS

AUTOMATIC BRIGHTNESS CONTROL FOR SEVEN SEGMENT DIGITAL DISPLAY

HIGH POWER FLASHER

PROGRAMMABLE MONOSHOT

BLOWN FUSE INDICATOR

BURGLAR ALARM

HEADPHONE AMAPLIFER

LATCH CURCUIT SIMPLIFIED

TWO WAY REMOTE CALL BELL

BIRD SOUND GENERATOR WITH TIMER

COST EFFECTIVE 4 LINE TO 16 LINE DECODER

DIGITAL COMBINATION LOCK

QUAD IC TAPE PREAMP

5 V TO 25 V DC CONVERTER

BLOWN FUSE INDICATOR CUM CAPACITOR TESTER

CMOS TOUCH SWITCH

AUTO SHUT OFF FOR TAPE DECKS

CLAP SWITCH CUM TOUCH SWITCH WITH TIMER

PRESETTABLE 19-MINUTE DIGITAL TIMER

MAKE YOURSELF THIS QUIZ DISPLAY

DIGITAL AC/DC VOLTAGE CUM CONTINUIT TESTER

DIGITAL BANK TOKEN NUMBER DISPLAY

RAM TESTER

YOKA FUN BOX

LEARN ROBOTICS

UNIVERSAL LOGIC PROBE

MICROPROCESSOR BASED ELECTRONIC LOCK

WIND DIRECTION INDICATOR

THE VU2ATN QRP TRANSCEIVER

GRAPHIC DISPLAY BOARD

LEAD ACID BATTERY CHARGER

HIGH GAIN 4 STAGE TV BOOSTER

DISPLAY PROFILE

TRANSISTOR AND DIODE TESTER CUM SIGNAL INJECTOR

LED SCOPE FOR AUDIO SERVICING

8 DIGIT MICROPROCESSOR DISPLAY

SIGNAL GENERATOR

BATERY LEVEL INDICATOR

4 LINE TO 12 LINE DECODER

TOUCH OPERATED BANDSWITCH

SIMPLEST LAMP FLASHER USING FLICKERING LED

AUTO ALARM OFF FOR DIGITAL CLOCK

ELECTRONIC GUARD

SIMPLE TRANSISTOR TESTER

TWO WAY TWO STATION CALLING SYSTEM

MULTI MODE INTERCOM

EXTRA DOOR BELL FOR MAINS FAILURE

TIMER WITH AUDIO ALARM

SINGLE PHASE PREVENTURE WITH UNDER / OVER VOLTAGE CUTOUT

STEREO TAPE PREAMP

ROM READER

DIGITAL ADJUSTABLE TIMER

THREE PHASE AUTOMATIC CHANGEOVER

ELECTRONIC X AND O GAME

ELECTRONIC PENDULUM

MICROPHONE AMPLIFIER

AUTOMOBILE INDICATOR WITH AUTO SHUT OFF

COMBINED INVERTER, CHARGER AND ELIMINATOR

AUTOMATIC CYCLE LIGHT

CAPACITANCE METER

DIGITAL TAPE COUNTER

IMPROVED AUTO CUT CIRCUIT FOR MANUAL VOLTAGE REGULATORS

LOW COST NIGHT LAMP

AUTOMATIC OVERHEAD TANK CONTROLLER

ATOMATIC RAIN DETECTOR

CLASS ROOM ADDRESSING SYSTEM

3 HOUR DELAY TIMER

LOW COST TOUCH SIWTCH

ZENER TESTER

IN CIRCUIT TRANSISTOR TESTER

ELECTRONIC LOCK FOR CARS

EFFICIENT USE OF MEMORY

HEAT EFFECTED BUZZER

PREPROGRAMMED PRIORITY DISPLAY

TOUCH SENSITIVE ALARM

BURGLAR ALARM WITH AUTOMATIC CAMERA CONTROL

10 WATT POWER AMPLIFIER

REVERSE POLARITY PROTECTOR

AUDIBLE CAPACITANCE METER

TWO IN ONE ELECTRONIC GAMES

WATER LEVEL CONTROLLER

ACCIDENT FREE ELECTROLOCOMOTIVE

FRIDGE PROTECTOR

AUDIO ANNUNCIATOR FOR AUTOMOBILE FLASHER

HEAD PHONE AMPLIFIER

AUTOMATIC CONTROL OF RADIO

IMPROVED DELAY SWITCH FOR DOORBELL

SIMPLE LOW COST TIMER

HALF HOUR BEEPER FOR DIGITAL CLOCKS

ELECTRONIC THERMOMETER CUM INTENSITY METER

DOUBLING AUDIO CASSETTES RECORDING TIME

SELF RESETTING FUSE ALARM

CHIRPING CIRCUIT

MUSICAL BURGLAR ALARM

DETHUMP CIRCUIT

TEMPERATURE CONTROLLER FOR OVENS

ELECTRONIC RUNNING LIGHTS

TOUCH CONTROL MUSICAL BELL

SELECTED TUNE MUSICAL DOOR BELL

TOUCH CONTROLLED AMPLIFIER

SWITCHED MODE POWER SUPPLY

ELECTRONIC ADVERTISEMENT DISPLAY

MINI T.T. GAME

ELECTRONIC DOOR LOCK

AUTOMATIC TRAFFIC LIGHTS MODEL

DIGITAL SCOREBOARD

MINI GENERAL PURPOSE HEX KEYBOARD

MAKE YOURSELF THIS COLOUR TV-I

MAKE YOURSELF THIS COLOUR TV-II

FULLY PROTECTED POWER SUPPLY FOR DIGITAL ELECTRONICS

VOISENTRY

5 SIREN PROJECTS USING IC 555

MAKE YOURSELF THIS NEGATIVE ION GENERATOR

FOUR IC 74C926 BASED PROJECTS

MELODIOUS DIGITAL TIMEPIECE

10W+10W CAR STEREO

MAKE YOLURSELF THIS 5 BAND HI-FI RECEIVER

TV CUM VIDEO GAMES

DIGI-TEACHER

AUDIO SPECTRUM ANALYSER

SERVO VOLTAGE STABILISER

DELAY SWITCH WITH A DIFFERENCE

ELECTRONIC FUEL LEVEL INDICATOR

TELEPHONE BUG

VOLTAGE SURGE PROTECTOR

PORTABLE STEREO CASSETTE TAPE AMPLIFIER

DIGITAL MEMORY FOR DOORBELL

ELECTRONIC CHASER

AUDIBLE GRIPSCOPE
REMOTE OPTICAL SWITCH
EMERGENCY LAMP CUM CHARGER
INTRUDER ALARM
CONVERT YOUR TAPE RECORDER INTO 2-IN-1
SIMPLE EMERGENCY LIGHT
SPARK PLUG TESTER
CAR OVERHEATING ALARM
SOUND OPERATED LIGHT SWITCH
SPEAKER PROTECTION CIRCUIT
INFRARED REMOTE CONTROL
SINGLE WIRE 2-WAY INTERCOM
MUSICAL DOORBELL CUM SIGNAL INJECTOR
SIMPLE ELECTROLYTIC CAPACITANCE METER
ELECTRONIC SIREN
ELECTRONIC VARIABLE RESISTOR
IDEAL HI-LO CUT OFF
ELECTRONIC PIANO
ELECTRONIC COMBINATION LOCK
SPLIT TREMOLO UNIT
TRUTH TABLE EVALUER
FREQUENCY DOUBLER USING 555 TIMER
SUPER TONE CONTROL ADD-ON
TOUCH SENSITIVE BARKING DOG
MAINS ELECTROSTATIC FIELD DETECTOR
POWER SUPPLY PROTECTION
MULTIPURPOSE MULTISTABLE
MULTIBEEPER
BATTERY STATE INDICATOR
TIMERS WITHOUT 555
SINGLE PHASE PREVENTER WITH ALARM
VARIABLE CURRENT SOURCE
IMPROVED RAIN DETECTOR
SERIAL LAMP FLASHER
REFLEX ACTION GAME
MOTOR BOAT SOUND SIMULATOR
IMPROVED 555 TIMER
MUTING CUM MUSIC CIRCUIT FOR B&W TV
DIGITAL LOGIC PULSER

UNATTACHED PORCH LIGHT/NIGHT LAMP

EXTENDING THE RANGE OF THUMB WHEEL SWITCH

AUTOMATIC SNOOZING FACILITY FOR DIGITAL CLOCK

IC 555 DRIVES STEPPER MOTOR

SECONDS DISPLAY FOR DIGITAL CLOCK

CAPACITANCE METER WITH DIGITAL DISPLAY

MULTIWAY SWITCH

VOLTAGE STEPPER

SIMPLE INEXPENSIVE `DE-THUMP` CIRCUIT

LINE TESTER

MOTOR BIKE BRAKE HORN

COOLER PUMP PROTECTOR CUM TIMER

SIMPLE WAA -WAA UNIT

ELECTRONIC CIRCUIT BREAKER

UNIQUE CUT-OUT FOR MOTORCYCLE

SINGLE GATE AFO

BICOLOUR LED SEQUENTIAL RUNNING LIGHT

VISUAL INDICATOR FOR TELEPHONES

MUSICAL ALARM FOR DIGITAL CLOCK

AUTOMATIC WATER LEVEL INDICATOR/CONTROLLER

AUDIO LEVEL INDICATOR

BICOLOUR LED FLASHER

TELETALK REPEATER

ELECTRONIC FUSE

POWER SUPPLY RESUMPTION ALARM

ELECTRONIC LUCKY NUMBER

SINGLE CHIP DICE

ELECTRONIC TOGGLE SWITCH

ELECTRONIC BALANCE AND LOUDNESS CONTROL

FREAK MOTOR

ELECTRONIC MAGIC BOX

AM RADIO TRANSMITTER

IMPROVED WATER LEVEL CONTROLLER

ELECTRONIC TEMPERATURE CONTROLLED SOLDERING IRON

CIRCUITS USING PRESSURE SENSITIVE RESISTORS

DO IT YOURSELF NUMBER FINDING GAME

ROMAN ALPHABET DISPLAY

OVERSPEEDING PREVENTER FOR TWO-WHEELERS

DYNAMIC DISPLAY

CONVERSION OF TV INTO CRO

TELL-TALE CLOCK FOR INDUSTRIES

SOLID STATE POWER CONTROLLER

VERSATILE DIGITAL TIMER

STEP BY STEP DESIGN OF ELECTRONIC VOLTMETER

DEW GUARD

ELECTRONIC TUG-OF-WAR

BOOLEAN JUNCTION EMULATOR

AN ELECTRONIC ORGAN

AN ELECTRONIC ROULETTE

POWER MAZE

UNIVERSAL DIGITAL JUNCTION GENERATOR

BOOSTING DIGITAL SUPPLY FOR ANALOGUE APPLICATIONS

VERSATILE 10-DIGIT CODE CLOCK

LIGHT METER

AUTOMATIC EMERGENCY LIGHT

POWER FLASHER USING LM 317T

MUSICAL UJT ORGAN

FM TRANSMITTER

DIGITAL PROBE WITH DUTY CYCLE INDICATION

MORSE RECORDER

ELECTRONIC MIMICER

QUAKE ALARM

REGULATED HIGH VOLTAGE POWER SUPPLY

MULTIPURPOSE BURGLAR ALARM

AUTOMATIC PORCH LIGHT

ELECTRONIC MULTI-WAY SWITCH

LOGIC TESTER

CORDLESS FM MIC

WIRELESS AUTOMATIC TORCH

TONE CONTROL FOR GUITAR AMPLIFIER

4-CHANNEL SEQUENTIAL LIGHTS

DATE INDICATOR FOR DIGITAL CLOCKS

DIGITAL MELODY

FLASHER WITH 741

GUN SOUNDS EFFECT GENERATOR

MATCH BOX SIZE VOICE TRANSMITTER

UNDER/OVER VOLTAGE PROTECTION CIRCUIT WITH DELAY

SUPER SIMPLE GRAPHIC EQUALISER

ULTRA SIMPLE DIGITAL PROBE

ELECTRONIC LETTER BOX

REGULATED POWER SUPPLY WITH BATTERY BACK-UP

SOUND OPERATOR TIMER

ELECTRONIC SHOOTING GAME

SIMPLE ELECTRODICE

MAGICAL ALPHABETS

TOUCH SWITCH STEP CONTROL

AUTOMATIC AC POLARITY CORRECT WITH A TRI-STATE NEON MONITOR

SIX-IN-ONE AUDIO CIRCUIT

CONTROL 2 LOADS WITH A SINGLE WIRE

TRANSFORMERS POWER SUPPLY

AUTO HEAT LIMITER FOR SOLDERING IRON

ELECTRONIC MOSQUITO DESTROYER

STAIR CASE SIGHTS

HYPNOTIC SPIRAL

VOLTAGE DROP DETECTOR

HI-FI INTERCOM

ECONOMICAL CRYSTAL TIME BASE

BUOY BEACON

SUBSTITUTE FOR BAR GRAPH IC

CONTINUITY TESTER

SUSTAIN CONTROL FOR GUITAR

STAIRCASE VOLTAGE GENERATOR

8-OCTAVE ELECTRONIC ORGAN

MUSICAL 2-TONE CHIME

MUSICAL HORN FOR CARS

3-PHASE VOLTAGE TRIPPER

NON-TRADE SEQUENTIAL DISPLAY

MORE IDEAS USING CHIP 303

DAY DATE COMPUTER

NI-CD BATTERY CHARGER WITH BATTERY SHUT -OFF

CMOS PULSE MONITOR

SMOKE DETECTOR ALARM

CAPACITOR COMPARATOR USING INTEGRATED DUAL TIMER

FREQUENCY COUNTER USING MULTIMETER

BIRD SOUND EMULATOR

REMOTE TV HORIZONTAL BAR GENERATOR

LOGIC NUMBER GAME

MAN MACHINE SOUND GENERATOR

LOGIC TESTER WITH DIGITAL READOUT

LIGHT OPERATED TOY ORGAN

ELECTRONIC LOCK

OBJECT COUNTER

SOIL MOISTURE INDICATOR

PROFESSIONAL METRONOME

TELEPHONE ANSWERING MACHINE

MUSICAL IN/OUT INDICATOR

50HZ OSCILLATOR SOURCE

SHORT CIRCUIT INDICATOR CUM PROTECTOR

TELEPHONE TAP INDICATOR

WATER LEVEL CUM PUMP FAILURE INDICATOR

KNIGHT RIDER LIGHT

MAINS LEAKAGE DETECTOR

MICROFILE

THYRISTORISED POWER CONTROLLER

A VOLUNTEER IN KITCHEN

A LARGER DISPLAY

LOAD PROTECTION CKT FOR SOLID STATE POWER AMPLIFIERS

GAME CUM FUN PROJECT TOUCH ME NOT

MULTILINGUAL NUMERICAL DISPLAY

BANK TOKEN DISPLAY

80 W STEREO CAR DECK

OFFICE CALL BELL SYSTEM

A STAND ALONE EPROM DUPLICATOR

VERSATILE INTERCOM SYSTEM

ULTRASONIC PEST REPELLER

CMOS LED DIAL CLOCK

REMOTE SWITCHING

PORTABEL 10 W + 10 w STEREO CASSETTE PLAYER

SINGLE BOARD BASIC COMPUTER

MICROPOWER AND HIGH EFFICIENCY ALARM CKT FOR CLOCKS

SIMPLE ELECTRONIC SIREN

ELECTRONIC THERMOMETER

MUTE SWITCH FOR RADIOS

SIDE TONE GENERATOR

MARUTI CAR FLASHER

MULTI MODE RUNNING LIGHTS

ROTATION SENSOR

THE K SPECIALIST

SOLID STATE BURGLER ALARM

AUDIO AMPLIFIER USING BEL 1895 FOR PORTABLE RADIO RECIEVER

UNI VARIABLE POWER SUPPLY

SINGLE CHIP ELECTRONIC PULSER CUM PROBE

PLANT TENDER

AC WAVE SLICER FOR USING 115V UNITS ON 230 VOLTS

DIGITAL NOCTURNAL NUISANCE

SIMPLE HEAD OR TAIL

LOUD SPEAKER POLARITY TESTER

MAINS LEAKAGE DISCONNECTOR

PROGRAMMABLE TIMER

BASS BOSTER

LOW COST 10 CHANNEL MULTIPLEXER

AC VOLTAGE STABLISER USING TIMER IC

BATTERY VOLTAGE MONITOR

DING DANG DONG BELL FOR DIGITAL CLOCK

THE YAMAHA SOUND

REMOTE CONTROL SWITCH

STEREO SIMULATOR

4 TUNE SIREN GENERATOR

FLASH XENON TUBE TESTER

STABILISING THE STABILISER

SOLIDATE EMERGENCY LIGHT

RIPPLE-FREE, SHORT CIRCUIT PROTECTED, VARIABLE OUTPUT VOLTAGE AND CURRENT POWER SUPPLY

TWO IN ONE RADIO CUM TRANSCEIVER

2 TONE DOOR BELL

VERSATILE POCKETIMER

A SIMPLE CAPACITANCE MEASUREMENT BRIDGE

MIND READER

ZENER DIODE TESTER

MUTING FOR STEREO CASSETTE PLAYER

TEST CIRCUIT FOR INWARD INSPECTION OF RELAYS

PORTABLE ORGAN

SOLIDASTATE VOLTAGE INDICATOR WITH HIGH VOLTAGE CUTOUT

AUTOMATIC OFF FOR UM66 DOORBELL

10 SEGMENT RECORD LEVEL INDICATOR

ELECTRONIC CARBON GUAGE

IC DISCO LIGHT

A TRANSISTORISED SOFT SWITCH

PIEZO BUZZER

BEEPER CIRCUIT

LOW COST TOUCH SENSITIVE SWITCH

HIGH PRECISION FREQUENCY AND VOICE DETECTOR

IN CIRCUIT TRANSISTOR DIODE CHECKER

VU METER WITH LED

JEET STEREO PREAMP

VERSATILE DIGITAL TESTER

QUIZ DISPLAY

ELECTRONIC SWITCH FOR DOOR BELL USING TIMER

DUTY CYCLE SELECTOR

AUTOMATIC DIPPER

LM 1895 IN CASSETTE TAPE RECORDER

MULTI SWITCH CONTROLLED RELAY

THREE-IN-ONE TEST GEAR

TOUCH SWITCH CUM HEAT OPERATED SWITCH

A GENERAL PURPOSE TEMPERATURE SENSING CIRCUIT

AUTOMATIC CIRCUIT BREAKER

SHOCK PREVENTER

RETURN TO ZERO FSK DECODER WITHOUT USING PHASE LOCK LOOP

ELECTRONIC MOTOR CONTROLLER

DYNAMIC DISPLAY

AN INTERCOM WITH HANDSET

BUILD YOUR OWN 30W+30W STEREO HI-FI DOUBLE CASSETTE RECORDER

MULTIRANGE ADJUSTABLE TIMER

AUTOMATIC BRIGHTNESS CONTROLLER FOR TVS

A HIGH IMPEDANCE ADAPTER FOR A MULTIMETER

NEO DIGITAL CLOCK

BOOLEAN FUNCTION EMULATOR

BUILT YOUR OWN TWO STAGE UHF TV BOOSTER

REGRIGERATION TEMPERATURE CONTROLLER

HEAVY DUTY VOLTAGE STABILISER

SWITCH MODE POWER SUPPLY FOR PERSONAL COMPUTER

COMPOSITE ELECTRONIC ORGAN

DIGITAL CLOCK WITH ON-OFF TIMER

DAY DATE COMPUTER

ELECTRONIC IGNITION SYSTEM FOR AUTOMOBILES

6-BAND LOW COST GRAPHIC EQUALISER

MAKE YOUR OWN VHF ANTENNA BOOSTER

RESETTING PRJOTECTOR FOR COMPUTERS

ADD-ON TELEPHONE DEVICES

MASTER-SLAVE CLOCK

ADD-ON DEVICES FOR DOUBLE CASSETTE RECORDER

DYNAMIC PSYCHEDELIC LIGHTS

DIGITAL CHANNEL SELECTOR

ELECTRONIC SWITCH FOR 3-BAND TRANSISTOR

ELECTRONIC NUMBER LOCK

THREE-IN-ONE CIRCUIT

MATCH BOX SIZE RADIO

STATIC AUDIO WATTMETER

VARIABLE SWITCHING POWER SUPPLY

TUBELIGHT WITHOUT CHOKE AND STARTER

AUTOMATIC STAR-TO-DELTA CONVERTER

CASSETTE COPIER

A PRECISE TIMER

MAINS SUPPLY INTERRUPTION INDICATOR

SINGLE CHIP CROSSOVER DETECTOR FOR LINE OVER VOLTAGE

ELECTRONIC CAR HORN

INDICATOR BELL

MULTI-TONE GENERATOR

AM TRANSMITTER

WHITE/LF NOISE GENERATOR

INDOOR ADVERTISING BOARD

SIMPLE TOUCH DIMMER USING TRIACS

CHARGING REMINDER FOR EMERGENCY LIGHTS

1 TO 10 PULSES FROM 4017 COUNTER

5V TO 20V REGULATED POWER SUPPLY

SMOKE ALARM

PULSE GENERATOR

AUTOMATIC VOLTAGE STABILISER

AUTOMATIC 2-MODE RUNNING LIGHT

MW VOICE TRANSMITTER (PEN CELL SIZED)

LOW POWER ALARM WITH AUTOMATIC SWITCH-OFF

SIMPLE ELECTRONIC SAND GLASS

FM COMMUNICATION SYSTEM

MAINS WIRING FAULT DETECTOR

PROGRAMMABLE ORGAN

8 TONE MULTIPURPOSE SOUND GENERATOR

HIGH / LOW VOLTAGE CUT OUT

DIGITAL STOP WATCH

FREQUENCY MEASUREMENT ON MULTIMETER

A SIMPLE INTERCOM

MINI CHASER

MAINS VOLTAGE INDICATOR

ASCII KEYBOARD TESTER

POCKET RADIO CIRCUIT USING NZ 414

COMPACT AUDIO CASSETTE DUPLICATOR

SUPER SIMPLE INTERRUPTION COUNTER

HARMONIC DISTORTION METER

CONDENSER LAMP DIMMER

SIMPLE COUNTER USING CALCULATOR

MULTIOUTPUT REGULATED POWER SUPPLY

IMPROVED MELODY DOORBELL

VOLTAGE WINDOW COMPARATOR FOLLOWS REFERENCE VOLTAGE

LOW COST DIGITAL CODE COMBINATION LOCK

SECONDS DISPLAY FOR DIGITAL CLOCK

10 CHANNEL TOUCH SWITCH

AUTO CUT FOR MANUAL STABILISERS

DELAY STARTER

DOOR ALARM

SIMPLE JAM

THE LED SCANNER

MELODY FROM IC TIMER

DISCO LIGHT PROJECT

IC VOLTAGE REGULATOR

AUDIO FREQUENCY OSCILLATOR

LINEAR HIGH CURRENT REGULATOR

IGNITION INDICATOR

SIGNAL INJECTOR CUM TRACER

MUSICAL AF/IF CHECKER

INVERTER BASED 3 IN 1 TIMER

ALL IN ONE CIRCUIT FOR FRIDGE

NI-CD CELL CHARGER

DIGITAL VOLUME CONTROLLER

PHASE SEQUENCE CHANGE INDICATOR

LML VESPA FLASHER

DUAL TRACE GENERATOR

COMPLEMENTARY LIGHTING CONTROL

SHORT PROOF POWER SUPPLY

UNIVERSAL CELL EVALUATOR

OVERDRAIN PROTECTOR FOR LEAD - ACID ACCUMULATORS

CLAP SWITCH

AUDIO CASSETTE COPIER

TWO WAY INTERCOM

FULL FEATURED TOUCH CONTROL PROGRAMMABLE POWER SUPPLY

HIT THE TARGET AN ELECTRONIC GAME

STEREO SPECTROGRAPH

DIGITAL TIME SWITCH

DIGITAL FREQUENCY COUNTER

FIRE SENSING SYSTEMS

SPECTECULAR SPECTRA

CLAP OPERATED REMOTE CONTROL FOR FANS

8W + 8 W STEREO AMPLIFIER MODULE

MAKE YOURSELF AUTOMATIC MUSIC SEARCH SYSTEMS

DIGITAL VOLUME CONTROL

COOK TIMER

VARIABLE SPEED MULTI OUTPUT RUNNING MODE LED DISPLAY

CMOS POCKETABLE TIME KEEPER

ELECTRONIC NUMBER SHOOTING GAME

CMOS DIGITAL CLOCK WITH ON OFF TIMER

70/40 WATTS HIFI AMPLIFIER

THE UNIVERSAL TIMER

AUTOMATIC VOLTAGE STABLISER

DIGITAL CAR LOCK WITH ALARM

AM FM RADIO RECIEVER USING BELL 7220

ELECTRONIC SWITCH STARTER

STEREO BALANCE INDICATOR

VERSATILE AUTO CUT OFF UNIT

STAIRCASE LIGHT SWITCH

WIRELESS RECORDING

A VERSATILE DECIBEL METER

SOUND OPERATED MUSICAL BELL

FUZZ EFFECT BOX FOR GUITARISTS

VIDEO DISTRIBUTION AMPLIFIER

LOW COST MUSICAL HORN

TEN CHANNEL SEQUENTIAL LIGHTING FOR CARS

CONVERSION OF DMM INTO FREQUENCY COUNTER

AUTO POWER OFF FOR MOTOR PUMPS

BEEPER CUM VISUAL INDICATOR

ELECTRONIC WASHING MACHINE CONTROL

TRIANGULAR WAVEFORM GENERATOR

AUTO CHANGEOVER FROM GENSET TO MAINS SUPPLY

TRANSFORMER TEST CIRCUIT TO OVERCOME LINE VOLTAGE VARIATIN

AUTOMATIC GATE LIGHT

POCKET RADIO USING LA 4510

TELEPHONE MELODY RINGER

DYNAMIC DISPLAY

STEAM WHISTLE

PROGRAMMABLE TIMER

LED STOP WATCH

LIE DETECTOR

TEMPERATURE CONTROLLED SOLDERING IRON STATION

MINI EMERGENCY LIGHT

AUTOMATIC TIME INDICATOR FOR TEOEPHONE

WIND SOUND GENERATOR

AUTOMATIC CUT-OFF POWER SUPPLY

BATTERY CHARGER WITH OVERCHARGE AND DEEP DISCHARGE PROTECTION

ELECTRONIC BALLAST FOR TUBELIGHT

COMPRESSOR / EXPANDER UNIT (COMPANDER)

ADJUSTABLE BIPOLAR VOLTAGE REGULATOR

HEX TO BINARY ENCODER

ELECTRONIC SIREN

SELF SWITCHING OFF POWER SUPPLY

SOUND OPERATED TIMER

TELEPHONE AMPLIFIER CUM BROADCASTER

QUIZ DISPLAY WITH SEVEN SEGMENT INDICATOR

ELECTRONIC STAIRCASE SWITCH

FULLY AUTOMATIC INDUCTION MOTOR STARTER

TEMPERATURE CONTROLLED OSCILLATOR

POWER BACK UP FOR DIGITAL CLOCKS

ANALOGUE FREQUENCY METER WITH OVER RANGE INDICATOR

VERSATILE STROBOSCOPE

IN-CIRCUIT OHMMETER (OHMMETER FOR ELECTRONIC CIRCUIT)

PRIORITY LAMP SYSTEM

MINIATURE IC ORGAN

QUARTZ WATCH TESTER

AUTOMATIC CONTROL FOR SITOUT LIGHTS

SIMPLE POWER SUPPLY RESUMPTION ALARM

I/86400 Hz GENERATOR

PROGRAMMABLE FREQUENCY MULTIPLIER USING PLL565

AUTO OFF FOR CASSETTE PLAYERS

ELECTRONIC CHARGER

TRANSISTORISED WARNING ALARM

ELECTRONIC NUMBER SCORING GAME

RAIN SOUND GENERATOR

DOUBLE TUNE CAR REVERSE HORN

TRAFFIC LIGHT CONTROLLER

SOPHISTICATED NI-CD CHARGER

THREE BIT FLASH ANALOGUE TO DIGITAL CONVERTER

PROGRAMMABLE DIGITAL TIMER

MULTI PATTERN RUNNING LIGHT

EIGHT SOUND GENERATOR

A NOVEL DISPLAY

AUDIO RUNNING LIGHTS

HEARING AID

FUEL LEVEL DROP INDICATOR

AUTOMATIC SUCTION TANK MOTOR CONTROLLER

12 HINDI SONG TUNES PRODUCER

SIMPLE FREQUENCY METER

100 RUNG EXCLUSIVE COUNTER
INEXPENSIVE GUITAR AMPLIFIER
VIDEO TRANSMITTER
WIRELESS CODE PRACTICE OSCILLATOR
LIGHT AND TOUCH OPERATED MUSIC BELL
ELECTRONIC FUSE
MULTISOUND BUZZER
CRYSTAL CONTROLLED INVERTER

MICROCONTROLLER BASED SECURITY SYSTEM USING CELLULAR TECHNOLOGY

The recent spat of daylight robberies at the jewelers has prompted us to undertake this project. This is a Research & Development project having commercial value. A typical situation in case of a daylight armed robbery is that miscreants enter the shop posing as customers, suddenly they brandish their guns and ask the shopkeepers to hand over cash and valuables. The phone lines are instantly cut and no one is allowed to leave the shop. There is absolutely no way to raise an alarm or contact the police. It is not even possible to take out a cellphone with the danger that the slightest move might invite a bullet.

In such a helpless situation, imagine that in one of the drawers there is concealed switch which when opened gives a signal to the microcontroller which in turn has a serial interface with a cellular phone which immediately dials a predecided phone number which may be a cellular phone or a ordinary landline, and the person on that phone is alerted of the robbery and not only this the voices inside the shop

are also made audible. . With an addition of infrared proximity sensors even the need to open the drawer to trigger the alarm is not required and by just moving the hand near the sensor will start the security system.

The party to be alerted could be the police or some close friend or relative who can take action immediately depending on the situation. Since all the conversation inside the shop is audible so it is possible that even the escape route or the best way to counter them could be planned from the information got from the conversation.

This security system could be used not only in shops and commercial establishments but also in homes, cars etc. Imagine this system in your car. The moment it is stolen you are able to hear all the conversation inside the car. You might be able to hear the robbers saying which route to follow or in which garage they plan to hide the car.

With cellular phone costs becoming affordable and the usage tariff plans becoming economical this project has a financial viability. The best part is that since it uses cellular technology the reliability is very high. There is a

chance of ordinary landline phones being out of order but cellular phones are very reliable.

SMS BASED MACHINE MONITORING SYSTEM

SMS messages on the GSM network are generally used by people to exchange information, but these can be used by machines to communicate with each other similar to blue tooth technology. Suppose if a machine overheats or there is a short ckt in the machine or the machine catches fire it can automatically send a SMS to the desired person or machine top initiate real time action.

SMS BASED MACHINE CONTROL SYSTEM

SMS messages on the GSM network are generally used by people to exchange information, but these can be used by machines to communicate with each other similar to blue tooth technology. The machine can be made to operate remotely by sending SMS messages to the machine.

MICROCONTROLLER BASED PROTECTION OF HIGH RISE BUILDINGS

Recently the WTC attack has left a indelible scar on

the psychology of the people. This project attempts to make a prototype of a system which can be used to protect high rise buildings against arial attack. The stepper motor moves a Tx which shoots pulses in all directions and the reflected signal is picked up and analysed to detect the direction and size of object approaching the building and a weapon is fired in that direction.

DIGITAL CVT

Voltage fluctuations are quite common and can result in damage to costly equipment. This project provides regulation and is better than conventional voltage regulation devices since it has no moving parts, has small size, quit operation, Less lossy and has fast response. The output is controlled through Triac Switching controlled by Digital circuitry.

MICROPROCESSOR BASED DIGITAL CVT

Voltage fluctuations are quite common and can result in damage to costly equipment. This project provides regulation and is better than conventional voltage regulation devices since it has no moving parts, has small size, quit

operation, Less lossy and has fast response. The output is controlled through Triac Switching controlled by Microprocessor which can be 8085 or any other.

MICROCONTROLLER BASED DIGITAL CVT

Voltage fluctuations are quite common and can result in damage to costly equipment. This project provides regulation and is better than conventional voltage regulation devices since it has no moving parts, has small size, quit operation, Less lossy and has fast response. The output is controlled through Triac Switching controlled by Microprocessor which can be 8085 or any other.

COMPUTER BASED DIGITAL CVT

Voltage fluctuations are quite common and can result in damage to costly equipment. This project provides regulation and is better than conventional voltage regulation devices since it has no moving parts, has small size, quit operation, Less lossy and has fast response. The output is controlled through Triac Switching controlled by Microprocessor which can be 8085 or any other.

MICROPROCESSOR BASED X-Y PLOTTER

A picture is worth a thousand words. Sometimes better visualization is given by a plot of the parameter to be measured. This project draws on a sheet of paper a plot of any selected parameter like temperature pressure etc wrt time.

MICROCONTROLLER BASED X-Y PLOTTER

A picture is worth a thousand words. Sometimes better visualization is given by a plot of the parameter to be measured. This project draws on a sheet of paper a plot of any selected parameter like temperature pressure etc wrt time.

IBM PC BASED X-Y PLOTTER

A picture is worth a thousand words. Sometimes better visualization is given by a plot of the parameter to be measured. This project draws on a sheet of paper a plot of any selected parameter like temperature pressure etc wrt time.

MICROPROCESSOR BASED QUALITY CONTROL EQUIPMENT

This project first builds a look up table by giving various inputs and outputs to the Godd test sample Device which has to be tested in the QC and then checks the specimens by comparing it with this reference table.

IBM PC BASED QUALITY CONTROL EQUIPMENT

This IBM PC first builds a look up table by giving various inputs and outputs to the Godd test sample Device which has to be tested in the QC and then checks the specimens by comparing it with this reference table.

MICROCONTROLLER BASED QUALITY CONTROL EQUIPMENT

This microcontroller first builds a look up table by giving various inputs and outputs to the Godd test sample Device which has to be tested in the QC and then checks the specimens by comparing it with this reference table.

MICROPROCESSOR BASED TEMPERATURE CONTROL

In this project the microprocessor compares the temperature at any instant with the preset value and if it exceeds the

set point it switches off the heating element using a Electromagnetic Relay

IBM PC BASED TEMPERATURE CONTROL

In this project the IBM PC compares the temperature at any instant with the preset value and if it exceeds the set point it switches off the heating element using a Electromagnetic Relay. It also draws a graph of the temperature on the screen

MICROCONTROLLER BASED TEMPERATURE CONTROL

In this project the microcontroller compares the temperature at any instant with the preset value and if it exceeds the set point it switches off the heating element using a Electromagnetic Relay.

MICROPROCESSOR BASED PRESSURE CONTROL

In this project the Microprocessor compares the pressure at any instant with the preset value and if it exceeds the set point it switches off the pump using a Electromagnetic Relay.

IBM PC BASED

PRESSURE CONTROL

In this project the IBM PC compares the pressure at any instant with the preset value and if it exceeds the set point it switches off the pump using a Electromagnetic Relay. It also draws a graph of the pressure on the screen

MICROCONTROLLER BASED PRESSURE CONTROL

In this project the Microprocessor compares the pressure at any instant with the preset value and if it exceeds the set point it switches off the pump using a Electromagnetic Relay.

IBM PC BASED CHARACTERSTIC PLOTTER

This project can draw the characterstics of any device ie Diode, Transistor, FET, UJT, any other black box on the screen of the computer. The characterstics of devices vary within the lot of the same manufacturer and also drift with time or physical conditions. So with the help of characterstic plotter accurate characterstics can be obtained by spending minimum time. The characterstics of devices are very important as these decide where to bias a

particular device so that the output does not go into saturation or cut-off

MICROPROCESSOR BASED CHARACTERSTIC PLOTTER

This project can draw the characterstics of any device ie Diode, Transistor, FET, UJT, any other black box on paper. The characterstics of devices vary within the lot of the same manufacturer and also drift with time or physical conditions. So with the help of characterstic plotter accurate characterstics can be obtained by spending minimum time. The characterstics of devices are very important as these decide where to bias a particular device so that the output does not go into saturation or cut-off

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MICROPROCESSOR BASED SURVELLIANCE SYSTEM

This project can have a combination of proximity sensors and other line of sight sensors to prevent intrusion in a home or office building.

IBM PC BASED SURVELLIANCE SYSTEM

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MICROPROCESSOR BASED HIV TESTER

Doctors and nursing staff have a risk of contacting AIDS while conducting the tests of the patients. This project is an automatic system for HIV testing. It is also useful since it can enable the patient to undergo testing in privacy.

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MICROPROCESSOR BASED MICROWAVE DATA COMMUNICATION

Microwaves have been used extensively to establish line of light links

from one exchange to another since these can carry wide bandwidths and can accommodate a number of channels. This project establishes a line of sight microwave link.

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MICROPROCESSOR BASED SOUND SCRAMBLER

In any communication system security is the main concern. Police or Armed forces want that no one

should be able to listen to what is being transmitted on the communication channel to avoid spying. This system scrambles digitally the audio sent over the channel and only if the password is known the other end can descramble it.

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MICROPROCESSOR BASED STORAGE AND REPRODUCTION OF SOUND

Automatic Voice Response Systems are in lot of use these days. For example when you call spice a voice prompt greets you and gives directions to finding the required information. Similarly answering machines also have the capability of storing and playing back sound. This project does this digitally without any magnetic tape

etc. The advantage is that there is no wear and tear and less chances of system breakdown.

DIGITAL EVENT SEQUENCER

If one machine after the other is to be switched on automatically this project helps in event sequencing.

MICROPROCESSOR BASED CONTROL OF SOLAR PANELS

Renewable sources of energy are gaining importance these days and Solar energy is the most abundant form of energy available which can be tapped. But the problem with solar energy is that the sun keeps changing direction and the solar panels are fixed. So they operate at only 25% efficiency. This project automatically tracks the direction of sun and aligns the panels in that direction.

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direction and the solar panels are fixed. So they operate at only 25% efficiency. This project automatically tracks the direction of sun and aligns the panels in that direction.

DIGITAL CONTROL OF FURNACE

In this project the digital ckt compares the temperature at any instant with the preset value and if it exceeds the set point it switches off the heating element using a Electromagnetic Relay.

DIGITAL INFRA RED OBJECT COUNTER

Machine for counting of currency is very prevalent in the banks these days. It really saves a lot of time and effort. Such counters can also be used in industry for counting small objects like screws, washers, nuts, bolts etc.

IBM BASED DATA ACQUISITION AND CONTROL

With the opening of economy and globalisation and liberalization only those companies will survive which have automation to compete with the multinationals. This project helps to use the computer for inputting data corresponding to any

parameter and its control. The computer normally is being used merely as a typewriter with no interface with the external world. This project helps industry for optimal use of computer hardware.

I.C. TESTER

All ICs look alike when seen. By just visual inspection it is not possible to make out if the IC is good or bad. So this project gives the set of desired inputs and gets the outputs and compares these to the correct ones stored in the look up table to ascertain if the IC ius good or bad.

VIRUS AND VACCINE

Terminate and Stay resident programs capture computer interrupts on the sly and have malicious code which can result in data loss or computer mal operation. This project involved design of one such code ad also a computer program which detects the presence of virus and removes it.

PILOT APTITUDE TESTER

A lot of fuel is wasted in practice when training pilots to fly the aeroplanes. With PAT a joystick is interfaced with the

computer to simulate the real life controls of the plane with the pilot. By operating the controls the pilot is able to control the plane and the view is simulated on the screen.

AUTOMATED GUIDED VEHICLE

Automation is the key to higher productivity and profits. Material handling is often the weakest chain in the link and manual labour is generally used employed to carry goods which results in accidents and wastage. This can be prevented using AGV for material handling. The vehicle carrying goods moves on a line drawn on the production floor from one point to the other automatically.

MICROPROCESSOR BASED ROBOTIC ARM

Depending on degrees of freedom and sensor and grip geometry a number of robotic arms can be designed for different uses controlled by a microprocessor.

DIGITAL ROBOTIC ARM

Depending on degrees of freedom and sensor and grip geometry a number of robotic arms can be designed for different uses

controlled by a digital circuit.

IBM PC BASED ROBOTIC ARM

Depending on degrees of freedom and sensor and grip geometry a number of robotic arms can be designed for different uses controlled by a computer.

TV DIAGNOSTIC SYSTEM

This is an Expert System which can help in fault diagnosis but it can be easily modified to diagnose faults in any other system.

MICROPROCESSOR BASED PAGING SYSTEM

In this the microprocessor frames the message by adding a capcode dependent on the pager which is decoded by the Rx to display the message if it is intended for it.

IBM PC BASED INDUSTRIAL AUTOMATION SYSTEM

With the opening of economy and globalisation and liberalization only those companies will survive which have automation to compete with the multinationals. This project helps to use the computer for inputting

data corresponding to any parameter and its control. The computer normally is being used merely as a typewriter with no interface with the external world. This project helps industry for optimal use of computer hardware.

IBM PC BASED DIGITAL SIGNAL PROCESSING SYSTEM

This project converts analog to digital and then processes it and again converts the Digital data back into analog.

MICROPROCESSOR BASED TV PATTERN GENERATOR

To trouble shoot a TV a TV pattern generator comes in handy as it provides a stable signal source for diagnosing faults.

IBM PC BASED DC MOTOR CONTROL

This project not only controls on/off and speed of the Dc motor but also reverses the direction of rotation of the DC motor.

MICROPROCESSOR BASED HEAT TRACKING SYSTEM

Similar to heat tracking system of missiles, this system tracks heat for other

purposes like automatic guarding of Bank safe vaults etc.

MICROPROCESSOR BASED ECG SYSTEM

This project captures the low frequency pulses that cause muscle contractions of the heart and draws an ECG waveform for diagnosis by the doctors.

MICROPROCESSOR BASED SOUND RECOGNITION SYSTEM

It can distinguish different notes on the frequencies and can even print the sargam being played on the synthesizer.

MICROPROCESSOR BASED LIGHT RECOGNITION SYSTEM

This project is the first step towards image recognition system where a grid of photoelectric cells acts like a compound eye for distinguishing various patterns.

DESIGN AND REAL TIME ANALYSIS OF DIGITAL CKTS

This project enables the testing of the Digital Ckt. Without actually assembling it. The ckt can be drawn ion the screen and it automatically generates the truth table

and output waveforms.

MICROPROCESSOR BASED SEISMIC SURVEILLANCE SYSTEM

This project is able to record the low frequency signals caused by the tectonic movements and can help in prediction of earthquakes.

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MICROPROCESSOR BASED SOUND POLLUTION MONITOR

It measures the sound pollution in dB and can help the law enforcement agencies to curb the menace of sound pollution.

MICROPROCESSOR BASED TEMPERATURE PRINTING SYSTEM

This datalogger eliminates the need for having a computer for printing the values of temperature being measured and straight away drives the printer without the need for

computer. Imagine the savings in terms of space, money, manpower, airconditioning, table, chair, operators etc.

MICROCONTROLLER BASED WEIGH SCALE FOR RURAL AREAS

This datalogger eliminates the need for having a computer for printing the values of weight being measured and straight away drives the printer without the need for computer. Imagine the savings in terms of space, money, manpower, airconditioning, table, chair, operators etc.

DIGITAL DRILL CONTROL

Suppose if it is required to drill a hole of 3mm and 5 mm deep. The normal way to do it is to take a vernier and use hit and trial to drill and measure till the required depth is reached. Chances of overshoot are there and also it is time consuming. With digital drill control a Thumb wheel switch can be used to set the depth of the hole to be drilled and the drill automatically stops after reaching the required depth.

MICROPROCESSOR BASED DRILL

CONTROL

Suppose if it is required to drill a hole of 3mm and 5 mm deep. The normal way to do it is to take a vernier and use hit and trial to drill and measure till the required depth is reached. Chances of overshoot are there and also it is time consuming. With microprocessor based drill control it can be programnmed to set the depth of the hole to be drilled and the drill automatically stops after reaching the required depth.

CNC CONTROL OF MACHINE

This machine converts ordinary machine into a CNC machine. For example in ordinary lathe the X-Y movement of the tool bit is controlled manually through handles and lead screws. This leads to errors and lot of manpower requirement to do a repetitive task. With CNC interface the computer drives the lathe and it saves time and improves accuracy.

MICROPROCESSOR BASED CAR ENGINE MANAGEMENT SYSTEM

This system monitors the engine temperature, speed, pressure etc and controls

the spark plug firing and fuel supply accordingly.

MICROPROCESSOR BASED PATTERN GENERATOR FOR CRO

Modern CRO comes with the facility to display the reading in digital format and other info in Alphanumeric format on the screen of the CRO. This project converts ordinary CRO into the one having alphanumeric display capability.

MICROPROCESSOR BASED DSP SYSTEM

This project converts analog to digital and then processes it and again converts the Digital data back into analog.

OPTICAL FIBER DATA COMMUNICATION

These days the voice and video signals are digitized and sent over the optical fiber. This project implements data link between two computers.

ERROR CORRECTION AND DETECTION ON OPTICAL FIBER

Due to impurities in the fiber or otherwise physical strain on the fiber at times errors are introduced. These can be corrected

using this project.

OPTICAL FIBER BASED TDMA SYSTEM

Optical Fiber has immense bandwidth and suppose if x number of users want to talk simultaneously form one place to another through optical fiber, then it is not economical to lay x optical fibers so multiplexing can be used to share the bandwidth with many users. One such technique is TDMA in which different Tx transmit at different time slots. This is implemented in this project.

OPTICAL FIBER BASED FDMA SYSTEM

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OPTICAL FIBER BASED CDMA SYSTEM

Optical Fiber has immense bandwidth and suppose if x

number of users want to talk simultaneously form one place to another through optical fiber, then it is not economical to lay x optical fibers so multiplexing can be used to share the bandwidth with many users. One such technique is CDMA in which different Tx transmit data and append a code before it which helps the Rx to distinguish which data packet is for which user. This is implemented in this project.

OPTICAL FIBER SOUND COMMUNICATION

After exhausting the wireless spectrum more and more dependence is on Optical fiber as the medium of communication. This project has an audio optical fiber transmitter and receiver along with a facility of sending a bell or ringer tone to alert the Rx that there is a call.

OPTICAL FIBER VIDEO COMMUNICATION

This project has a video transmitter and receiver for implementing video link. This link is useful in radiation prone areas since optical fiber is immune to it.

SPLICER

Optical Fiber cannot be joined like ordinary conducting cable and needs a Splicer to connect it in case it is broken. This project makes a Splicing machine for Optical Fibers.

OPTICAL FIBER HEAT SENSOR

Besides being used for communication purposes optical fiber can also be used as a sensor. This project uses optical fiber for heat sensing.

OPTICAL FIBER PRESSURE SENSOR

Besides being used for communication purposes optical fiber can also be used as a sensor. This project uses optical fiber for pressure sensing.

OPTICAL FIBER LIGHT SENSOR

Besides being used for communication purposes optical fiber can also be used as a sensor. This project uses optical fiber for light sensing to detect fires.

PROXIMITY SENSOR

You must have seen automatic doors being operated in movies when a person stands in front of it. This project detects the presence of any person or

object in the designated vicinity. It can also be used for warning while reversing the car.

COMPLEX WAVEFORM GENERATOR FOR COMMUNICATION TESTING

The normal signal generators in the labs can generate square, sine or triangular waveforms, but in order to test the modern communication and test equipment complex waveforms are required for input. These can be managed using a complex waveform generator where the user can input the waveform required.

MICROPROCESSOR BASED DISH WASHER

The drudgery of washing the utensils can be avoided using the microprocessor based dishwasher. It automatically controls soap dispenser and incoming and outlet of water etc.

TELEPHONE CALL RECORDER

This device can be used as a powerful bug to listen to anyone's conversation over the phone. The ckt need not be in close proximity to the phone and can be installed anywhere in the path of the incoming telephone line. The

conversation is recorded on a tape which can be played back at convenience.

IBM PC BASED RADAR

The stepper motor moves a Tx which shoots pulses in all directions and the reflected signal is picked up and analysed to plot direction and size of objects around the area.

VHDL BASED PROJECTS

7-Segment display decoder.

Converts Hex to 7 segment logic

Error detecting in data transmission.

Logic to detect the error in the serial data transmission at the receiver end. By using the different tech.

Such as hufffman coding, parity check, etc.

Error detecting and correcting in the serial data transmission.

Logic to detect the error in the data transmission and logic to correct the data without retransmitting the data by huffman coding.

Code Generator

A logic to generate the some finite number of codes serially.

Code detector

A logic for getting the data

serially and detecting it. If extended sequence arises then set the flag bit.

7400 series tester

A logic for testing the 7400 TTL chips for functionality.

VHDL Codes for D Flip Flop modeling.

D flip flop modeling with the setup time, hold time, reset recovery time violations.

Controller for Sample bus arbiter

Controller for Vending Machine

Floating Point Division Unit

Floating Point Multiplication Unit

Floating Point ALU

Square root of the Floating Point number

Complex Integer ALU

Stack Processor

Cache memory controller

Traffic Light controller

Controller for JTAG BIST

Ethernet Controller

PCI/USB