

## **FINAL YEAR PROJECT TOPICS FOR ENGINEERING & COMPUTER SCIENCE STUDENTS**

- ✓ Design and Implementation of Arduino-Based Digital Water Meter
- ✓ Design and Implementation of Arduino-Based 3-Phase Digital Auto Changeover with LCD Display
- ✓ Design and Implementation of Microcontroller-Based SUMO Water Pump Controller With Borehole Monitoring System
- ✓ Design and Implementation of Microcontroller-Based Pure Sine-Wave Inverter System
- ✓ Design and Implementation of Transformerless Inverter Power System
- ✓ Design and Implementation of Microcontroller-Based Digital Notice Board Using GSM Module and LCD Display
- ✓ Design and Implementation of Microcontroller-Based Digital Ammeter
- ✓ Design and Implementation of Microcontroller-Based Digital VoltMeter
- ✓ Design and Implementation of Digital Frequency Meter
- ✓ Design and Implementation of Automatic Car-Tracker With GPS Locator
- ✓ Design and Implementation of GSM-Based Automatic Fire Alarm Reporter
- ✓ Design and Implementation of Mono-Block Power Amplifier With Digital Volume Control
- ✓ Design and Implementation of Ultra-Power Welding Machine With Voltage Adjuster

- ✓ Design and Implementation of Automatic Water Bath
- ✓ Design and Implementation of Soccer Substitution Board
- ✓ Design and implementation of automatic surge protector.
- ✓ Design and implementation of variable car battery charger.
- ✓ Design and implementation of remote controlled lighting point.
- ✓ Design and implementation of 1.5KVA automatic voltage regulator/stabilizer.
- ✓ Design and implementation of 7x64 Dot-matrix display system.
- ✓ Design and implementation of automatic streetlight control system.
- ✓ Design and implementation of automatic streetlight.
- ✓ Design and implementation of 3 - level controllable sound booster
- ✓ Design and implementation of automatic 4 - way traffic light.
- ✓ Design and implementation of automatic 1.5KVA inverter system.
- ✓ Design and implementation of automatic cell phone call/message detector.
- ✓ Design and implementation of automatic clap activated switching system.
- ✓ Design and implementation of portable hearing aid.
- ✓ Design and implementation of 500Watts induction heater/burner.
- ✓ Design and implementation of 0 - 60volts, 150Watts automatic variable car battery charger.
- ✓ Design and implementation of universal battery charging system.
- ✓ Design and implementation fire alarm system.
- ✓ Design and implementation of 3.0KVA power inverter system.
- ✓ Design and implementation of automatic security light control system.
- ✓ Design and implementation of automatic light/darkness detector.
- ✓ Design and implementation of software based transformer aided design system.
- ✓ Design and implementation of variable step up transformer.

- ✓ Design and implementation of metal detector system.
- ✓ Design and implementation of overhead/underground water level indicator and pump control system.
- ✓ Design and implementation of Japan Radio Corporation IC based audio amplifier.
- ✓ Design and implementation of home theater sub-woofer power amplifier.
- ✓ Design and implementation of double channel 60watt, 8Ω audio power amplification system.
- ✓ Design and implementation of 2000watts automatic voltage stabilizer.
- ✓ Design and implementation of IC chip programmer
- ✓ Design and implementation of step up transformer system
- ✓ Design and implementation of automatic charge controlled car battery charger.
- ✓ Design and implementation of LCD based PIR intruder alarm system (microcontroller based project).
- ✓ Design and implementation of 1KVA transformerless inverter system.
- ✓ Design and implementation of microcontroller based lifter control system.
- ✓ Design and implementation of microcontroller based water level indicator with pump controller system.
- ✓ Design and implementation of password-based door security system.
- ✓ Design and implementation of universal PIC microcontroller programmer.
- ✓ Design and implementation of double channel power amplifier.
- ✓ Design and implementation of microcontroller based remote control system.

- ✓ **Design and implementation of microcontroller based security light control system.**
- ✓ **Design and implementation of ultrasound hearing aid system.**
- ✓ **Design and implementation of automatic clap activated switching system.**
- ✓ **Design and implementation of microcontroller based fire alarm system.**
- ✓ **Design and implementation of microcontroller based burglar alarm system.**
- ✓ **Design and implementation of microcontroller based fire alarm system with SMS.**
- ✓ **Design and implementation of intruder alarm system using GSM module and microcontroller.**
- ✓ **Design and implementation of GSM based car tracking system.**
- ✓ **Design and implementation of GSM based automated control system for household appliances.**
- ✓ **Design and implementation of microcontroller based automatic 3-phase changeover system.**
- ✓ **Design and implementation of microcontroller based automatic water level indicator and pump controller.**
- ✓ **Design and implementation of microcontroller based digital voltmeter.**
- ✓ **Design and implementation of microcontroller based temperature monitoring system.**
- ✓ **Design and implementation of microcontroller based keypad door locking system.**
- ✓ **Design and implementation of microcontroller based sound operated switching system.**
- ✓ **Design and implementation of microcontroller based GEN-TO\_NEPA automatic changeover system.**

- ✓ Design and implementation of automatic self-powered door bell.
- ✓ Design and implementation of ultramodern metal scanner/detector.
- ✓ Design and implementation of online result management system.
- ✓ Design and implementation of super bass car audio amplifier.
- ✓ Design and implementation of 12V - to - 24V variable laptop charger.
- ✓ Design and implementation of automatic charge controlled car battery charger.
- ✓ Design and implementation of microcontroller based digital voltmeter.
- ✓ Design and implementation of 19V self-regulating laptop charger.
- ✓ Design and implementation of microcontroller based digital temperature sensor.

## **Software based projects**

- ✓ Development and implementation of online result checking system.
- ✓ Development and implementation of higher institution GP calculating software.
- ✓ Development and implementation online examination writing/management system.
- ✓ Development and implementation of secondary school result processing system (a case study of WASSCE).
- ✓ Development and implementation of offline CBT examination management system.
- ✓ Development and implementation of office accounting software.
- ✓ Development and implementation of software-based transformer designing system.
- ✓ Development and implementation of hospital management system.
- ✓ Development and implementation of ATM management system.
- ✓ Development and implementation of online voting system.
- ✓ Development and implementation of online job recruitment system.

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- ✓ **Development and implementation of online library management system.**
- ✓ **Development and implementation of e-payment system.**
- ✓ **Development and implementation of e-voting system.**
- ✓ **Development and implementation of age calculator and birthday reminder.**

### *NOTE:*

*If you have a different project topic order than what we have listed above, feel free to consult us for your design, implementation and write up.*

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