Projects

- **Enhanced Generative Question Answering using LLM and RLHF,** Undergrad Thesis
- **Home Automation: AC-Light-Fan Control,** Course - Robotics and Automation Laboratory
- **SkyWatch: A Drone Surveillance System for Disaster Management,** Course - Robotics and Automation Laboratory
- **Electrical Service Design of a 10 Storeyed 2 Unit Apartment Building,** Course - Electrical Service Design Laboratory
- **Smart Irrigation System,** Course - Microprocessor and Embedded Systems Laboratory
- **Water Level Indicator Using 74 Series IC and 7 Segment Display,** Course - Digital Electronics Laboratory
- **Variable DC Battery Charger with Auto Cutoff Feature and Deep Discharge Control,** Course - Power Electronics Laboratory
- **Development of Floating Garbage Cleaning Robot for Water Body Surface,** Course - Control Systems I Laboratory
- **A simple time domain algorithm for the detection of ventricular fibrillation in electrocardiogram(Research Paper Implementation),** Course - Digital Signal Processing I Laboratory
- **Live Temperature and Humidity Monitoring over Internet,** Course - Communication Systems I Laboratory
- **Detection of Faults in Electrical Power Transmission Line,** Course - Power System I Laboratory
- **Rewinding of 4 Pole 3-Phase Squirrel Cage Induction Motor,** Course - Energy Conversion Laboratory
- **Implementation of Clipper, Clamper and Voltage Regulator Circuits for Sinusoidal, Square and Triangular Inputs,** Course - Numerical Technique Laboratory
- **Frequency Sweep Analysis of Transistor Amplifiers: MOSFET and BJT Low-Frequency Gain Investigation,** Course - Electronic Circuits I Laboratory