N.Prince Raj

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Career Objective

A passionate and self-motivated Electronics and Communication Engineering graduate with a keen interest in electronic circuit boards, PCB design, and embedded systems. I am equally inclined toward exploring space-based communication technologies and contributing to research in satellite and deep-space networks. Additionally, I possess a strong foundation in IT and software applications, with experience in integrating hardware with software for smart systems and secure communication. I seek a dynamic role where I can bridge electronics, software, and space research to innovate and solve real-world challenges.

Education

Bachelor of Engineering in Electronics and Communication Engineering
Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences
Saveetha Nagar, Thandalam, Chennai - 602105
Duration: 2023 - 2027
CGPA: 8.5 (Till Present)

Higher Secondary Certificate (HSC)
State Board of Tamil Nadu
Year: 2023
Percentage: 63.16% (Total: 379/600)

Technical Skills

- Programming Languages: Python (basic), C (fundamentals)
- Hardware Platforms: Arduino Uno, Arduino Nano, KY-037 Sound Sensor, Hall Effect Sensor and some sensors based on the project I did.
- Simulation & Circuit Design Tools: Scilab, Cisco Packet Tracer
- Software & Tools: Arduino IDE, Wireshark, nanoHUB, HFSS, MMANA-GAL
- Networking Concepts: LAN configuration, static routing, ICMP tracking, topologies
-And i am a quick learner and also i can easily adapt to the working environment.

Projects

1. Morse Code Encoder and Decoder using Arduino Uno
Technologies: Arduino Uno, LED, Buzzer, Push Button
Description: Converts user input into Morse code signals and vice versa using LEDs and buzzers.

2. Arduino-Based Weather Monitoring System

Technologies: Arduino Uno, DHT11, MQ Sensor, RF Module

Description: Measures temperature, humidity, and gas levels; transmits data wirelessly using RF.

3. Environmental Sound Classification using Arduino

Technologies Used: Arduino Uno, KY-037 Sound Sensor, C programming

Description: Implemented a hybrid system using Arduino and C programming to classify environmental sounds (e.g., claps, knocks). Data from the sensor was analyzed using C-based digital signal-processing algorithms to detect and categorize various acoustic events.

Career Interests

Currently seeking internship opportunities in the domains of embedded systems, circuit design, PCB development, IoT, programming, and satellite communication. Eager to apply academic knowledge in a practical setting and contribute to innovative, real-world engineering challenges. Open to research-oriented roles and collaborative team projects that expand skills in both hardware and software integration.Eager to apply academic knowledge in a practical setting and contribute to innovative, real-world engineering challenges. Open to research-oriented roles and collaborative team projects that expand skills in both hardware and software integration.