Darshan N

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CAREER OBJECTIVE

An Electronics and Communication Engineer with practical expertise in Embedded and VLSI field. Committed to contributing to advanced semiconductor projects while continuously improving technical and design optimization skills.

EDUCATION

Sapthagiri College of Engineering, Bangalore — **Dec 2021 - May 2025**
Bachelors in Electronics and Communication Engineering — **Score: 8.7 CGPA**

St Claret Pre-University College, Bangalore — **Aug 2019 - June 2021**
Class: XII | Major: PCME — **Score: 79%**

Oxford Public School, Bangalore — **Apr 2018 - June 2019**
Class: X | ICSE — **Score: 73%**

PROJECTS | Academic Projects

1.Smart Door Lock System | (4th sem)
Developed a Smart Door Lock System featuring keyless entry through biometric and mobile app-based methods. Enabled remote access control and real-time monitoring via a secure smartphone application, allowing users to manage and track door security from anywhere. Integrated the system with existing home automation setups and ensured high security with advanced encryption and tamper-resistant hardware. Designed for ease of installation and user-friendly operation, enhancing both convenience and safety for residential and commercial properties.

2.Driver's Sleep detection Using Arduino UNO| (5th sem)
Developed a Driver's Sleep Detection system using Arduino Uno, focused on enhancing road safety by preventing accidents caused by driver fatigue. The system utilizes an infrared sensor to monitor eye blink patterns and detect signs of drowsiness. By analysing the frequency and duration of blinks, it triggers an audible alarm to alert the driver. This low-cost, real-time solution is designed for easy integration into vehicles, providing a practical approach to reducing the risks associated with driver drowsiness.

3.Obstacle Avoidance Using Robo Car| (6th sem)
Designed an Automatic Braking System using Arduino Uno to enhance collision prevention in robotic systems. The project featured a three-wheeled robot, with the third wheel connected only to the chassis, not to a motor. Sensors were integrated to detect obstacles and automatically trigger the braking mechanism, ensuring immediate response and safety. This system highlights the efficient use of low-cost components for real-time collision avoidance, demonstrating practical applications of Arduino in autonomous robotic technologies.

SKILLS

Languages: Basics of C++ and Python, Verilog, Embedded C.
Tools: MATLAB, Multisim, Cadence Virtuoso(VLSI).
Fundamentals: CMOS, RTL Design, VLSI Design, Analog and Digital Communication.

DECLARATION

I, Darshan N, hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Place: Bangalore