SUNIL B K

Sunkadakatte Bangalore, India-560091
bksunila23@gmail.com | +91 9611634854 | linkedin.com/in/sunilbk9611634854

Summary

I am an aspirant and passionate Electronics and Communication Engineering student,looking for an opportunity to explore myself in pursuing a challenging career in your progressive organization,where the process of learning is encouraged, where I can find a platform to showcase and to enhance my skills and creativity to the maximum extent to contribute to the overall success, growth and development of the organization.

Education

Vivekananda Institute of Technology, Bangalore India **2020 - 2024**
- Bachelor of Engineering (B.E) in Electronics and Communication Engineering | CGPA: **7.94** (expected)

MES PU College of Arts Commerce and Science, Bangalore India **2018 - 2020**
- **PRE University** *PUC (PCMB), Aggregate:* ***69.11%***

S S Public School, Bangalore India **2017 - 2018**
- *SSLC (Class X), Aggregate:* ***93.44%***

Skills

C++ | Python | Matlab | Embedded systems | VLSI Design | PCB Design | Circuit Design | Machine Learning |

MS office | Project Management |

Work Experience

Emertxe Information Technologies, Bangalore India | Intern **Aug'2023 - Oct'2023**
- Completed internship on **EMBEDDED SYSTEMS**
- Hands-On Exposure on Foundational Programming Skills in C and Microcontrollers.
- SDLC Based Project Building in Embedded Systems

Aviva Smart Solutions, Bangalore India | Intern **Aug'2023 - Sep'2023**
- Developing and testing electronic components for a variety of applications,including consumer electronics,and industrial equipment
- Designed analog and digital component circuits and PCBs (Printed Circuit Boards) using drafting software such as KiCad and Altium Designer drafting software

Projects

Efficient PCB Quality Control System with Automated Segregation using Machine Learning **Nov'2023**
- Autonomous PCB defect detection and segregation system, using YOLOv5, and OpenCV for real-time analysis.
- Wireless communication for seamless integration with an ESP32-based segregation system, enabling immediate corrective action.
- Achieved precise defect identification, improving quality control in electronics manufacturing. Reduced labor dependency, increased operational efficiency, and ensured high-quality PCB production.

Smart Helmet for Coal Mine Workers **Jul'2023**

A Real-time safety device for coal mine workers, developed using the ESP32 microcontroller and Blynk IoT platform, programmed in C++.
- Detects harmful gases, temperature, humidity, obstacles and impacts.
- It sends data to a remote station so that mine safety personnel can monitor it.

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Certifications

VLSI Design Flow: RTL to GDS, *NPTEL Course IIIT Delhi* **Oct'2023**
VLSI System on Chip Design, *Maven Silicon* **Sep'2023**
Python Programming, *GUVI Geek Networks, IITM Research Park* **Aug'2023**
Embedded Systems Design, *NPTEL Course IIT Kharagpur* **May'2023**
Robotics, *Effent Technologies* **Jun'2022**