


CHARUTHA SANTHOSH

Entry-Level Electronics Graduate

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PROFILE

Recent graduate in Electronics and Communication Engineering with a passion for technology and innovation. Experienced in designing circuits, working with telecommunications systems, and solving technical problems. Skilled in programming and using electronic tools. Eager to apply my knowledge and skills to real-world projects and contribute to a dynamic engineering team.

PROJECTS

Project 1: Automated Hydroponics

Role: Developer

Duration: Completed

Technology(s) Used: Python, NodeMCU8266

Team Size: 4

Developed an Automated Hydroponics system for monitoring pH, humidity, temperature, turbidity and controlling water level using NodeMCU8266.

Project 2: Data Preprocessing of LiDAR Using FPGA

Role: Developer

Duration: Completed

Technology(s) Used: Python, FPGA, LiDAR sensors

Team Size: 4

Designed and implemented a LiDAR data preprocessing system using FPGA for real-time noise reduction and data optimization. Utilized Local Mean Decomposition (LMD) and Iterative Threshold Method (ITM) to improve processing speed and data quality for applications in autonomous systems.

EDUCATION

• APJ Abdul Kalam Technological University

2020-2024

B.Tech(Electronics/communication)

Model Engineering College, Kochi

• Central Board of Secondary Education

2020

Class XII

Vidyodaya School, Kochi

CERTIFICATIONS

- Awarded **NPTEL** certification in completing the course **Python for Data Science**.

KEY SKILLS

- Requirement Gathering
- Release Management
- Life Cycle Management
- Software Development
- Time Management
- Teamwork

TECHNICAL SKILLS

- Python
- HTML
- CSS
- Microsoft
- Javascript