MURUGADASS S

Electronics and Instrumentation Engineer

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About Me

Electronics and Instrumentation Engineering student with a strong foundation in core concepts and a broad understanding beyond the curriculum. Adept at integrating hardware and software solutions for efficient system performance. Passionate about technology, innovation, and problem-solving in diverse engineering fields. Quick learner with strong analytical and research abilities. Committed to continuous learning and adapting to emerging technologies. Seeking opportunities to apply technical expertise in a dynamic environment.

Education

Sri Sai Ram Engineering College, Chennai   Tamil Nadu, India

B.E Electronics and Instrumentation Engineering, CGPA: 8.20/10   Oct. 2022 - May. 2026

Experience

Summer Intern   June. 2024 - July. 2024

National Institute of Technology   On-site, Tiruchirappalli

- Conducted a detailed study of FlexiForce and BNO055 sensors.
- Analyzed the FlexiForce sensor's response using a 10kΩ resistor, without Arduino.
- Used MATLAB to work with the BNO055 sensor for orientation and motion tracking.
- Investigated how these sensors might be used in control and automation systems.
- Gained experience in MATLAB-based analysis and sensor data processing.

Projects

Underwater rov for headrace tunnels   2022 – Present

Surveillance and Maintenance   Tinkercad

- Designed and developed an underwater ROV for headrace tunnel inspection and maintenance.
- Integrated cameras and sonar sensors for real-time surveillance and mapping.
- Implemented a remote control system with tethered communication for deep-water operation.
- Developed embedded firmware for motor control, depth sensing, and navigation in constrained environments.
- Conducted field testing to evaluate performance in varying water conditions and tunnel structures.

Skills

Programming Languages: Familiar With (🐍 python, 🇨 C)

Designing Skills: 🄷 HTML, 🄲 CSS(beginner)

Designing Tools: Ⓦ Wordpress, 🎨 Figma

Languages: Tamil, English

Certifications

- NPTEL - Design Thinking, Python for Data Science, MEMS
- FIGMA Workshop organized by Lux & Decibels and Figma Bootcamp Organized by Revamp Academy
- IIT Bombay- C Programming Spoken tutorial