GAWTAM P

ECE Undergraduate | Hardware, Software, and Web Enthusiast

Tamil Nadu ,India

ABOUT ME

Motivated individual with a developing foundation in electronics and communication, and strong interest in both hardware systems and full-stack web development. Enthusiastic about exploring the intersection of hardware and software while learning new technologies to build innovative solutions.

SKILLS

- **Programming Languages:** C, Python
- **Web Development:** HTML, CSS, JavaScript, React *(learning)*
- **Soft Skills:** Problem Solving, Teamwork, Adaptability
- **Tools & Platforms:** Git, GitHub, VS Code, Excel, Linux
- **Hardware & Electronics:** Basic Circuit Design, Analog and Digital Electronics, MATLAB, Arduino*(learning)*

PROJECTS

- **BLOOD BUNK** (Full-Stack Web Application)
  Created a fully operational website that connects blood donors and recipients based on blood group and location. The system includes secure data management, donor search, and user registration functionalities. Through this project, gained practical experience in front-end design and full-stack development concepts.

- **Microplastic Detection Sensor** (IOT based project)
  A system for detecting microplastics was created based on the prototype incorporating a CMOS camera to provide real-time images of stained water samples and utilizing Arduino for data acquisition and control of the illumination and sensing modules. Basic signal processing improved particle visibility, and hardware–software integration ensured synchronized imaging, data transfer, and system operation. The arrangement successfully exhibits the overall procedure for microplastic particle detection in aquatic environments, laying the groundwork for future integration of advanced image analysis and machine learning.

EDUCATION

- **Indian Institute of Information Technology Kottayam (IIITK)** — May 2028
  B.Tech Electronics and Communication Engineering — CGPA:**8.63**

- **Chinmaya Vidyalaya** (PACR),Rajapalayam — Class percentage=**92%**

ACHIEVEMENTS

- **Smart India Hackathon** (SIH -2024)
  Selected for developing a CMOS camera–based microplastic detection prototype under the environmental sensing category.

LANGUAGES:

Tamil ,English – Proficient in both spoken and written
Hindi – Conversational