SREEHARI PS

Innovative and detail-oriented Embedded Systems Developer with experience in designing, developing, and optimizing software and firmware for embedded systems. Adept at ensuring seamless integration with hardware components and proficient in various programming languages and communication protocols. Strong background in IoT device development and wireless communication technologies.

CONTACT

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EDUCATION

Sree Chitra Thirunal College of Engineering
B-tech Electronics and Communication
GPA: 6.44

Higher Secondary
Percentage: 78%
Board: Kerala Board of Higher Secondary Education

High School
Board: Central Board of Secondary Education
GPA: 7.8

SKILLS

- **Programming Languages**: C, Embedded C, Python
- **Hardware:** Raspberry Pi, Arduino, ESP32 , ESP32 S3, ESP32 S3 MINI, STM32 (nucleo boards)
- **IoT Technologies:** LoRa WAN, Matter Protocol, MQQT ,
- **Development Tools & IDEs**: STM32CubeIDE, ESP-IDF, Espressif IDE
- **Protocols:** SPI, I2C, UART
- **Databases:** InfluxDB, MQQT database ,
- **Version Control:** GitLab, GIT

LANGUAGE

- English
- Malayalam

INTERNSHIPS

- KELTRON - Internship Training
- DOORDHARSHAN - Internship Training
- Information Security Workshop at NIT Calicut
- Persistence of Vision Workshop
- Vision Robotics Workshop

WORK EXPERIENCE

Embedded Engineer

TALROP   2024 October--Present

At Talrop, I advanced from a Technical Assistant to a Junior Embedded Engineer and now serve as the Team Lead for the Robett Project. My role involves leading the development of IoT-based automation solutions, managing a team, and ensuring seamless integration of embedded systems.

- Smart Home Automation (Matter Protocol): Led firmware development, API integration, and cross-platform compatibility for a smart home system.
- Polyhouse Automation: Developed real-time environmental monitoring with sensor integration, cloud-based data visualization, and automated control algorithms.
- Robett Project: Currently leading the research and development of an innovative embedded system, overseeing hardware-software integration and API interactions.
- Conducting client meetings for requirement gathering and progress updates.
- Participating in recruitment by interviewing IoT engineers to strengthen the team.

IOT/Embedded-Project Assistant

ICFOSS   2023 June--September

- Proficiently designed, developed, and optimise software and firmware for embedded systems, ensuring seamless integration with hardware components.
- Developed IoT devices by integrating various sensors with micro-controller units.
- Wireless communication LoRA WAN Technology.
- Interfacing of sensors using communication protocols such as SPI, I2C, UART etc.
- Demonstrated expertise in programming languages essential for embedded systems development, including C, C++, and Python.
- Maintained comprehensive documentation, including code documentation, specifications, and performance reports, facilitating clear communication and knowledge sharing within the team.(Gitlab)

CAREER PROJECTS

- **Flood Monitoring and alert system using RLS sensor**
- **City Temperature and Humidity Monitoring System Using SHT45**
- **POC of Water Current meter(Wading Rod)**
- **Point to Point Communication using LoRa**

ACADEMIC PROJECT

IOT BASED SURVILLANCE ROBOT

- IOT Based Surveillance Robot The Robot module has to monitor the area where it is installed and send notification to the owner when an intrusion occur. This camera can collect vital information regarding the surroundings where the robot travels and can send them to the receiver where the operator can analyze the surrounding without actually being there.

EXTRA CURICCULAR ACTIVITIES

- Sree Chitra Thirunal Collage of Engineering, Core committee member of Cult A Way 2020National Level Inter College Techno cultural Fest
- Sree Chitra Thirunal Collage of Engineering, Event Coordinator of Arts Fest 2019 and Judge Committee of Arts Fest 2020
- CEST - Council of Electronics Studies, Event Coordinator
- National Service Scheme, Volunteer Coordinator

References

MR. C Suresh Babu
 Chartered Accountant
 ARSB Associates , Vazhuthacaud
Thiruvananthapuram
 Phone: 9447126855

DR. Smitha VP
Assistant Professor- Economics
 NSS College for Womens , Neeramankara
Thiruvananthapuram
 Phone: 9447380378