



# SHERIN SUDEER

Graduate Electronics Engineer | Embedded Systems | IoT Developer |

Python & C Enthusiast

## Contact

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Kochi, India

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## Skills

- Problem-solving
- Team Collaboration
- Adaptability
- Time Management



## PROFILE

Motivated Electronics and Communication Engineering graduate with a solid foundation in embedded systems, IoT, and web technologies. Experienced in self-driven projects, internships, and hackathons. Eager to contribute to innovative teams, with strengths in problem-solving, collaboration, and continuous learning.



## Education

- **Diploma – Embedded Systems (Ongoing)** 2025 – Present  
*Soften Technologies, Kochi*
- **B.Tech – Electronics & Communication Engineering** 2021 – 2025  
*Rajagiri School of Engineering and Technology, Kochi*  
CGPA: 7.1
- **High school – State Board** 2017 – 2020  
*Rajagiri Higher Secondary School, Kalamassery*  
Grade XII Score: 87% | Grade X Score: 89%



## TECHNICAL SKILLS

- **Programming & Scripting Languages:** Embedded C, Python, HTML, CSS, JavaScript
- **Tools & Libraries:** Arduino, ESP, STM, Raspberry Pi, Matlab, IDEs (Cube, Dave, Visual Studio)
- **Tech Domain:** Embedded systems, Debugging, Web Development
- **Others:** Flask, MySQL, Cloud Hosting, Sensor Integration



## PROJECTS & INTERNSHIPS

- **Internship – AWS E-commerce Web App**  
Built a basic E-commerce website during AWS internship using full-stack technologies.
- **Autocart – Smart Robotic Shopping Cart**  
Developed a robotic cart system that auto-navigates store aisles to collect items based on a shopping list input from a mobile app. Integrated image processing, sensor controls, and robotic arm for real-time item detection and collection.  
**Tech Used:** Raspberry Pi, Arduino, Python, Image Processing, C, Flask, Web UI
- **LBTMS – Lithium Battery Thermal Runaway System**  
Built a hardware-software integrated BMS for EVs to monitor and control thermal conditions. Designed a web-based dashboard for real-time visualization and fault analysis.  
**Tech Used:** Python, Flask, ESP32, MySQL, Sensor Integration
- **Home Power Monitoring & Control System**  
Created a smart home system that tracks and displays power usage data via web dashboard and enables remote appliance control.  
**Tech Used:** ESP32, ACS712, Flask, MySQL, Cloud
- **Home Security with Motion Detection**  
Developed a PIR-based motion detection system with live camera feed and email alert notifications for unauthorized access.  
**Tech Used:** ESP32, Camera Module, Python, SMTP, MySQL



## Additional Projects

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- Fire Detection using UA741 & IR Sensor
- Industrial Motor Control System (Real-time Monitoring + Overload Protection)
- Automated Water Dispenser using 8051 Microcontroller



## POSITIONS OF RESPONSIBILITY

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- **Event Coordinator – Hack Club RSET**
  - Supported planning and execution of technical events and workshops
  - Actively contributed to organizing Hackernel 1.0, a 24-hour campus hackathon
- **Student Volunteer – IEEE RSET Student Branch**
  - Assisted in coordinating IEEE-led technical and leadership events
  - Played a key role in organizing IEEE LINK CAMP 2022



## References

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### Professor

university

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### Zainab

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