

# MOHAMMED SHAMIL K P

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## SUMMARY

Electronics and Communication Engineering student with hands-on experience in robotics system design, embedded programming, and hardware-software integration. Skilled in solving technical challenges and passionate about applying engineering knowledge to real-world problems. Active participant in hackathons, innovation projects, and community initiatives.

## TECHNICAL SKILLS

**Programming & Tools:** Python, MATLAB, Embedded C, Arduino, Robotics Hardware, Microcontrollers

**Domains:** Robotics, Embedded Systems, VLSI Design, Data Science, AI/ML Fundamentals

**Languages:** English, Malayalam

## EXPERIENCE

### Motridox Robotics

Sep 2022 – Present

Malappuram, Kerala

*Embedded Systems and Hardware Lead — Student Robotics Group*

Designed and assembled electronic hardware for custom robotic prototypes.

Developed and tested embedded programs for microcontrollers and sensors.

Integrated hardware and software to achieve functional robotic systems.

Prepared concise technical reports, presentations, and documentation.

Led and participated in hackathons, including NASA Space Apps Challenge.

Achieved 2<sup>nd</sup> place at Zilkathon Hackathon.

## PROJECTS

### FaceLytix – Intelligent Touchless Attendance System

Dec 2024 – Apr 2025

*Eranad Knowledge City Technical Campus, Cherukulam, Manjeri*

[github.com/shamil1355/FaceLytix](https://github.com/shamil1355/FaceLytix)

Developed an intelligent touchless attendance system using **ESP32-CAM** and **OpenCV** for real-time facial recognition and logging.

Handled **hardware installation, software integration**, and complete **framework design**.

Implemented secure and automated attendance management suitable for schools and offices.

Technologies: ESP32, Raspberry Pi, OpenCV, Python, Arduino IDE, Documentation Tools.

## EDUCATION

### Eranad Knowledge City Technical Campus

Manjeri, Kerala

Sep 2022 – Oct 2026

*B.Tech in Electronics and Communication Engineering*

Comprehensive program focusing on core electronics, communication theory, and signal processing.

Active member of **NSS, IEDC, and IEEE Student Branch**.

Skilled in 8051 Microcontroller, HDL, Embedded C, Python, and system design.

Participated in seminars, workshops, and research-based innovation projects.

### Darul Uloom Higher Secondary School (HSS) Panakkad

Kerala, India

Jun 2020 – Mar 2022

*Higher Secondary, Computer Science*

Specialized in **Computer Science and Information Systems** with focus on programming fundamentals.

Coursework included programming languages, DBMS, and web development with practical lab sessions.

Gained hands-on experience through coding projects and interschool technical events.

Built a solid foundation for engineering and problem-solving skills.

## **CERTIFICATIONS**

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- Artificial Intelligence – NoviTech R&D Pvt Ltd (2025)
- Project to Product – Eranad Knowledge City (2024)
- VLSI System on Chip Design – Maven Silicon (2024)
- Enterprise Data Science – IBM (2024)
- Scientific Computing & Data Science Using Python – EKC (2023)

## **VOLUNTEERING**

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- National Service Scheme (NSS) – Contributed to community welfare, cleanliness drives, and awareness programs.
- Indian Red Cross Society (JRC Cadet) – Engaged in youth empowerment and health-related initiatives (2018–2020).