SACHINTHA GAURAWA KULASOORIYA

Graduate Electronic & Electrical Engineer | Embedded Systems & Robotics Specialist

Nationality: Sri Lankan   📞 (+94) 77 8787 998

📍 No.76, Kongollawatta, Karanthippala, Kuliyapitiya. Sri Lanka.

✉️ gaurawasachintha@gmail.com

in linkedin.com/in/sachinthagaurawa

🌐 www.info.sachinthagaurawa.com

ABOUT ME

I am a highly motivated postgraduate specialising in Electrical and Electronic Engineering, with hands-on expertise in embedded systems, automation and intelligent safety technologies. My academic training has covered a wide range of areas including ELV installation, PCB design, digital electronics and microcontroller programming. I am proficient in industry standard tools such as KiCad, SOLIDWORKS, Proteus, MATLAB and Arduino.

I led the design and implementation of the Advanced Autonomous Vehicle Safety System (AAVSS) as project, a real-time, AI-integrated embedded platform aimed at reducing road accidents through intelligent monitoring and automation. The system earned distinction level recognition and reflects my commitment to engineering innovation for social impact.

Beyond technical knowledge, I excel in team collaboration, critical thinking, and problem solving under pressure. I am eager to further my experience in advanced electronics, robotics and smart systems, contributing to future-ready projects that prioritise safety, efficiency and innovation.

EDUCATION

Master of Science in Automation and Robotics
Anglia Ruskin University, United Kingdom - (2025-2026)

Bachelor of Engineering (Hons.) in Electrical and Electronic Engineering
University of Greater Manchester, United Kingdom - (2024-2025)

Electronic Engineering– Prior Study (Years 1–3)
SLTC Research University, Sri Lanka - (2021-2024)

Advanced Diploma of Robotics Technology and Telecommunications
Canadian Skill Development Council - (2023-2025 July)

Diploma in Project Management
University of Moratuwa - (2024)

Diploma in Mechatronics
Alison Education, Ireland - (2023)

Advanced Diploma in Python
University of Moratuwa - (2023)

Diploma in Python
University of Moratuwa - (2023)

Diploma in Web Designing
University of Moratuwa - (2023)

Diploma in Information Technology
Pearson - (2021)

Diploma in English
Pearson - (2021)

GCA (A/L) in Engineering Technology Stream
Saranath National College - (2020)

GCA (O/L)
Saranath National College - (2017)

KEY SKILLS

- **Technical Skills:** Electrical system integration, PCB design, circuit analysis, embedded systems, mechatronics, MATLAB, KiCad, SolidWorks, Proteus
- **Programming Languages:** Python, C/C++, MATLAB scripting
- **Tools & Platforms:** Arduino, Raspberry Pi, Jetson Nano, PLC systems, Android Studio, IoT devices, ELV systems
- **Soft Skills:** Problem solving, critical thinking, teamwork, project management, technical writing, research presentation

EXPERIENCE

Technical Maintenance

TK SPORTS | Sri Lanka

2021 April - 2023 August.

- Provide essential maintenance and repair services for various machines including embroidery and digital printing machines ensuring minimal downtime and optimal performance.
- Skilled in quickly diagnosing and resolving electronic and electrical related issues in machinery significantly reducing operational delays.

Academic Projects

- Smart Car Parking System
- Automatic Headlight Control
- RLC Meter
- Autonomous Driving Data Set for Sri Lanka (Up-Coming)
- Advanced Autonomous Vehicle Safety System (Patent Pending)

Research Work

- AI-driven disaster prediction and swarm robotics for emergency response (2025)
- AI-Driven Disaster Prediction and Rapid Swarm Response Using Edge-Embedded Vision and Spatio-Temporal Intelligence (2024)