



# SACHINTHA GAURAWA KULASOORIYA

Graduate Electronic & Electrical Engineer | Embedded Systems & Robotics Specialist

Nationality: Sri Lankan (+94) 77 8787 998

No.76, Kongollawatta, Karanthippala, Kuliapitiya. Sri Lanka. 60200

gaurawasachintha@gmail.com

linkedin.com/in/sachinthagaurawa

[sachinthagaurawa.github.io](https://github.com/sachinthagaurawa)

## ABOUT ME

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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

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### 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)

## PROFESSIONAL MEMBERSHIPS

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- International Member of IET (MIET) – Institute of Engineering and Technology, United Kingdom
- International Member of IEEE – Institute of Electrical and Electronics Engineers
- International Member of The Institution of Electronics, UK
- Pending Member of IESL – Institution of Engineers Sri Lanka

## AWARDS & HONORS

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- **Dr. Vidhya Vinod Academic Excellence Award – 2025**  
Study World Lanka Campus | Convocation Ceremony  
Best Undergraduate Project – BEng(Hons) Electrical & Electronic Engineering  
Outstanding achievement in final year project design and implementation

## KEY SKILLS

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- **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

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**Chairman** 2025 - Present

### AVANTIO APPARELS PRIVATE LIMITED | Sri Lanka

- Established and lead a B2B/B2C apparel manufacturing venture, overseeing strategic direction, operational management and business development within the Sri Lankan garment export industry.
- Spearheaded comprehensive business registration and compliance processes, ensuring adherence to regulatory standards and facilitating seamless establishment of company operations and market entry.
- Implemented efficient supply chain management and quality assurance protocols to optimize production processes while maintaining competitive pricing and client satisfaction across B2B partnerships.

**Technical Maintenance** 2021 April - 2023 August.

### TK SPORTS | Sri Lanka

- 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

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

## Research Work

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- 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)

## REFERENCES

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### DR. MIGARA KARUNARA

Faculty Dean of SLTC  
Senior Lecturer  
+94 71 403 3934  
migarak@sltc.ac.lk

### MR. GIHAN AMARASINGHE

Lecturer in Electronics of SWLC  
+94 78 875 0151  
gihan@swehg.com