SACHINTHA GAURAWA KULASOORIYA

Graduate Electronic & Electrical Engineer | Embedded Systems & Robotics Specialist

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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)

PROFESSIONAL MEMBERSHIPS

- 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

- **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

- **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

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

- 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

- 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

DR. MIGARA KARUNARA   Faculty Dean of SLTC
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MR. Gihan amarasinghe   Lecturer in Electronics of SWLC
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