

SUDEERA PERERA

MECHANICAL & AEROSPACE ENGINEER



CONTACT

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Jaala
[Linkedin Profile](#)

PORTFOLIO

sudeeraperera.com/portfolio

EDUCATION

2022 – 2026

UNIVERSITY OF RUHUNA

- BSc (Hons) in Mechanical and Manufacturing Engineering (OGPA Pending)

2023 – 2024

BIRMINGHAM CITY UNIVERSITY, UK

- BSc (Hons) in Software Engineering (OGPA – 3.3)

SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English (Fluent)
- Sinhala (Fluent)
- Tamil (Basic)

ADDITIONAL

- Mister International Sri Lanka 2024.
- Shotokan Karate brown belt
- Fashion model
- Actor

TECHNICAL SKILLS

Tools SolidWorks, Fusion 360, ANSYS Fluent, MATLAB/Simulink, XFLR5, STK
Platforms Mission Planner, Git, ArduPilot, Linux, ROS2, Arduino
Languages Python, MATLAB, C++, JavaScript, TypeScript, PHP, Java

WORK EXPERIENCE

Aircraft Maintenance Engineer – Trainee **Sri Lankan Airlines Ltd.**
AUG 2025 – NOV 2025
• Founded the company and worked as the Chief Software Engineer.

Mechanical Engineer – Trainee **Michelin Lanka (Pvt) Ltd.**
JUN 2024 – SEP 2024
• Worked on web systems design and building mainly focusing on backend.

Founder/Software Engineer **GENZ Technologies (Pvt) Ltd.**
SEP 2024 – SEP 2026
• Founded the company and worked as the Chief Software Engineer.
• Responsible for system architecture design and technical lead.
• Completed 10+ software system projects.

Software Developer **360 Dominance – UAE**
FEB 2024 – JUN 2024
• Worked on web systems design and building mainly focusing on backend.

Associate Software Engineer **Exon Software Solutions (Pvt) Ltd.**
SEP 2023 – FEB 2024
• Handled web system design and programming of major clients.

Assistant Lecturer **Java Institute for Advanced Technology**
JAN 2023 – AUG 2023
• Conducted lectures on Web frontend designing and Java EE.

PROJECTS

[VIEW ALL](#)

VECTOR VI UAV

[LINK](#)

- Long Range Fixed Wing Hybrid VTOL UAV with Three Engine Thrust Vectoring.
- Designed the UAV with thrust vectoring mechanisms and performed aerodynamic simulations to validate the design.
- Built the model with Ardupilot combining the components and performed testing.

SPACEBOT Robot

[LINK](#)

- Free-Flying Robot for Space Structure Assembly and Orbital Operations.
- Developed a comprehensive mechanical design for the spacebot.
- Performed design validation and control simulations using Ansys Fluent, Solidworks, Matlab, Simulink and Ansys STK

Phoenix 2.0 – Liquid Rocket Engine Model

[LINK](#)

- Designed a liquid-gas hybrid rocket engine model with GOX and Kerosene as fuel
- Performed FEA and flow simulations to validate the design and performance.

Coin Sorting Machine using ML & AI

[LINK](#)

- Designed a coin sorting machine and developed a prototype.
- Learned and Implemented a Machine learning model to identify the coins.

PROFESSIONAL MEMBERSHIPS & LEADERSHIP

- SEDS Ruhuna: President (2025); Vice President (2024)
- Institution of Mechanical Engineers (IMechE): Student Affiliate Member
- Institute of Electrical and Electronics Engineers (IEEE): Student Member
- De Mazenod College : Prefect (2016 – 2020); President – Janasanka Mass Media Unit (2019); Vice Secretary – Mazenodian Astronomy and Space Society (2019).

COMPETITIONS AND AWARDS

- Silver Medal – Astronomy and Astrophysics Olympiad – 2016
- Merit Awards – Astronomy and Astrophysics Olympiad – 2014 & 2017
- Finalist – Sri Lanka Robotics Challenge – 2024
- Finalist – Robofest Micromouse Competition – 2023

ADDITIONAL QUALIFICATIONS

- HND & Diploma in SE – Skills Group, UK Awards (2022 – 2023)
- CIMA Certificate Level (2021)
- IELTS band 7 | British Council, Colombo (2023)
- GCE Advanced Level: 2 As and 1 B, Physical Science, Z-score 1.84 (2020)
- GCE Ordinary Level: 9 As (2017)

REFERENCES

Prof. H.C.P. Karunasena

Dean – Engineering,
University of Ruhuna

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Dr. K.C. Wickramasinghe

Senior Lecturer – DMME,
University of Ruhuna

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