

SUPUN NAVODA GAMLATH

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PROFILE

A passionate undergraduate with strong interest in robotics, embedded systems, and Internet of Things seeking opportunities to apply knowledge and develop skills.

- Skilled Computer Science undergraduate with over 6 years of experience designing and programming robots and embedded systems for paying customers.
- Completed software projects utilizing machine learning and computer vision algorithms .

CORE SKILLS

- Robot Development (ROS, PlatformIO)
- Programming Skills (C++, Java, Python)
- PCB Design (Eagle, Fusion 360)
- App Development (Android Studio, React Native)
- Machine Learning (scikit-learn, TensorFlow)
- Image Processing (OpenCV, Tesseract)
- Robot Simulation (Webots, Fusion360)
- Web Design (React, HTML, CSS, JavaScript)

PROJECTS

RABBIT ROBOT & ELEPHANT ROBOT – ABU ROBOCON 2023

Leader of Team Mora, the university robotics team which got selected to represent Sri Lanka at ABU RoboCon 2023 held in Phnom Penh, Cambodia. Our team designed the electronics, mechanical components and control systems utilizing computer vision for two functional robots in 3 months under tight budget constraints to perform the ring pick and toss task specified in the competition guidelines.

DISASTER ANALYSIS RESPONSE TOOL

Assisted in developing an advanced AI/ML system leveraging geo-spatial data to predict and model damage inflicted upon customer assets in the event of natural disasters. Contributed to UI development using React. Awarded Runners Up at ChallengerX AI/ML incubator program.

ASSET TRACKING PLATFORM

Developed an IoT platform for monitoring business assets using embedded GPS trackers. PCBs for the GPS hardware were designed using Autodesk Eagle. Software included Arduino for GPS trackers, NodeJS for backend on Google Cloud and React Native for frontend. Awarded All Island Finalist at IEEE Innovation Nation 2021.

EXPERIENCE

2021 – PRESENT

FOUNDER, STARTUP – WWW.SPATIA3DPRINTS.COM

Following my passion for 3D printing, I founded Spatia 3D with the goal of providing quality 3D printed parts for hobbyists and designers at an affordable cost.

2016 – PRESENT

FREELANCER, WEB DESIGN | E-COMMERCE | APP DEVELOPMENT

Worked with international clients on various freelance projects including E-commerce websites, mobile apps, graphic design, and animations.

2021 – 2023

WEB DESIGNER, CBD CONNECT UG

E-commerce platform design, development, and maintenance for CBD Connect UG located in Bonn, Germany.

2021 – 2022

RESEARCH ASSISTANT, INTELLISENSE LAB | UNIVERSITY OF MORATUWA

Assisting an industry collaborated project to build Xavier, an autonomous multi-robot system that collaboratively maps an area in 3D.

2020 – 2021

TUTOR, MATHEMATICS | PHYSICS

Tutored groups of students studying in science streams for G.C.E. Advanced Level Examinations.

EDUCATION

UNIVERSITY OF MORATUWA

B.Sc. Honors (UG) in Engineering, SGPA – 3.81 (OUT OF 4.00)

Department of Computer Science Engineering

MALIYADEVA COLLEGE KURUNEGALA

G.C.E. Advanced Levels, 3As | Z-SCORE – 2.4352

Physical Science Stream (English Medium)

AWARDS AND HONOURS

Dean's List, UNIVERSITY OF MORATUWA | 2023

Faculty of Engineering | Semesters 1, 2 & 3

Runners Up (Team), CHALLENGERX | 2023

AI / ML Incubator program for 6 months organized by IFS and Hatch

Second Place (Team), CYPHER | 2023

Inter University Hackathon organized by General Sir John Kotelawala Defense University

Second Place (Team), REALHACK 4.0 | 2023

Inter University Hackathon organized by University of Kelaniya

First Place, IESL ROBOGAMES | 2022

Robotics Competition organized by Institution of Engineers Sri Lanka and University of Moratuwa

First Place (Team), SLIIT BASHAWAY | 2022

Coding Competition organized by SLIIT Free and Open Source Community

All Island Finalist (Team), IEEE INNOVATION NATION | 2021

Startup Accelerator organized by Institute of Electrical and Electronics Engineers, ICTA and LSEG

SOFT SKILLS

- Leadership
- Problem Solving
- Adaptability
- Effective Communication
- Teamwork
- Empathy and Positivity

REFERENCES

Prof. Chandana Gamage

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Dr. Sulochana Sooriyaarachchi

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PERSONAL DETAILS

Interests

- Travelling
- Hiking
- Red Cross Volunteering
- Swimming

Citizenship

- Sri Lankan

Language Proficiency

- English (Fluent)
- Sinhala (Fluent)

Online Profiles

- LinkedIn <https://www.linkedin.com/in/supungamlath>
- GitHub <https://github.com/supungamlath>