



SUPUN GAMLATH

Moratuwa, Sri Lanka | supung.20@cse.mrt.ac.lk

Portfolio - <https://supungamlath.github.io>

OBJECTIVE

Motivated Computer Science Engineering undergraduate specializing in Integrated Computer Engineering, focusing on robotics and embedded systems. Excited to work on real-world projects and enhance my skills. Ready to collaborate with a dedicated team to drive excellence and propel technology forward.

SKILLS

C++11 Programming

- `std::vector`, `map`, `sort`

Python 3 Programming

- `tkinter`, `matplotlib`, `pandas`

Robot Programming

- ROS2 - `nav2`, `ros2_control`

Robot Simulation

- Webots, Gazebo

Machine Learning

- Scikit-learn, XGBoost

Image Processing

- OpenCV, Pillow

CAD Design

- Eagle, Fusion 360

Interface Design

- React, React Native, HTML5

PROJECT EXPERIENCE

[MORE PROJECTS ON PORTFOLIO](#)

MAZE SOLVING ROBOT

Simulated on GCTronic E-Puck robot in Webots environment. Developed wall detection algorithm using machine learning. Used Python OpenCV library for object detection and segmentation. Implemented A* search, PID control and sensor fusion algorithms. Awarded 1st Place Winner at IESL RoboGames 2022.

3D ARENA MAPPING ROBOT

Robot with Kobuki base, Raspberry Pi 3 and Kinect Camera. Programmed with ROS2 Foxy utilizing `nav2`, `kobuki_ros_interfaces` and `kinect_ros2` packages.

EDUCATION

UNIVERSITY OF MORATUWA – SRI LANKA

B.Sc. Honors (UG) in Engineering, SGPA – 3.72 (Out of 4.00)

Computer Science Engineering | Integrated Computer Engineering

THE OPEN UNIVERSITY OF SRI LANKA

Certificate in Computer Aided Drafting and Modelling

KAGGLE COURSES

Intro To Machine Learning | Intermediate Machine Learning

COURSERA COURSES

Basic Robotic Behaviors and Odometry – University of Colorado

Neural Networks and Deep Learning – DeepLearning.AI

LEADERSHIP EXPERIENCE

TEAM MORA - ABU ROBOCON 2023

- Leader of Team Mora, robotics team from University of Moratuwa.
- Represented Sri Lanka at ABU RoboCon 2023 in Cambodia.
- Coordinated team sprints, stakeholders, financial management.
- Responsible for designing and programming the “Rabbit Robot”.
- Robot had ESP32 microcontrollers and RPi 3 running ROS2 Foxy.
- Used Kinect Camera with OpenCV for object recognition.



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