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 OpenCV for object detection.
Implemented A* search, PID control and sensor fusion algorithms.
Awarded 1st Place Winner at IESL RoboGames 2022.

3D ARENA MAPPING ROBOT

Designed PCB with Eagle, 3D Printed case with Fusion 360.
Programmed ATMEGA8A microcontroller with Arduino.
Awarded All Island Finalist at IEEE Innovation Nation 2021.

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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