

EDUCATION

Undergraduate

University of Moratuwa 2020 - Present

CGPA: 3.87 / 4.0

Dean List: Semester 2 (3.96/4.0)

Semester 3 (3.92/4.0) Semester 4 (3.93/4.0)

SKILLS

- Embedded Systems Development
- Internet of Things
- Machine Learning
- Mathematics
- Embedded Networks
- 3D Modelling and Simulation
- Version Control and Automation
- Web Development
- Critical Thinking
- Time Management
- Teamwork and Leadership

CERTIFICATIONS

Algorithmic Toolbox - UC San Diego
Pandas Certification - Kaggle

PROGRAMMING LANGUAGES

C++ / C Python Javascript
Java C# VHDL

LANGUAGES

English fluent Sinhala fluent

CHATHURA GUNASEKARA

B.Sc. Computer Science and Engineering Undergraduate Integrated Computer Engineering Stream University of Moratuwa

PRO-GUNE in chathura-gunasekara

PROJECTS

Automated Targeting System for RoboCon 2023 robot

Built 2 robots to compete at the RoboCon 2023 International Robotics Competition. I incorporated Image segmentation to identify targets and calculate distance using a kinect camera and a raspberry PI 3 board running on Linux and also handled holonomic motion modelling of one robot

IoT Air Quality Node

An embedded device that measure air quality by measuring CO2 concentration, Dust Matter concentration, humidity and temperature. Integrated with a node-red dashboard to display the statistics and control the device using the dashboard. Currently integrating a machine learning algorithm for predicting patterns using received data [In Progress]

AgrIoT BLE Communication

Implement Bluetooth Low Energy protocol to transfer data from a soil sensor to a drone for the AgrIOT project.

Micromouse - Grid World Simulation

Implemented a Python Pygame based simulation of micromouse, which is a maze solving robot. Includes a text file based maze generator and a maze solver using Flood Fill and backtracking algorithms

Wordle Bot

This is a wordle bot designed using the principles of entropy in information theory to predict the most likely word

HONORS AND AWARDS

Represented Sri Lanka RoboCon 2023

University representative IMC 2022

3rd Prize IUHD Open Mathematical Olympiad

April 2022

Inter University Mens TT Team Champions

August 2023

April 2022

2022, 2023

REFERENCES

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