Pasindu Sankai pa

Undergraduate | Electronic & Telecommunication Engineering

in linkedin.com/in/pasindu-sankalpa-64979217a 😯 github.com/Pasindu-Sankalpa

No.39, Siddhartha Road, Peellawatta, Andiambalama, Gampaha

i psnd-resume.web.app

An enthusiastic electronic undergraduate who loves to solve problems with an engineering approach. Can quickly adapt to new technologies. Use his full potential and skills to make the world a better place.

Areas of interest: Robotics Machine Learning Al Radar



FDUCATION

>

B.Sc. Eng (Hons.) Electronic & Telecommunication Engineering

DEC. 2019 - PRESENT SRI LANKA

University of Moratuwa CGPA - 3.83/4.20

Dean's list in Semester 1 and Semester 2

G.C.E. ADVANCED LEVEL

2018 Sri Lanka

BANDARANAYAKE COLLEGE - GAMPAHA

3A's in Physical Science Stream

- Z-core = 2.1941
- Gampaha District Rank 16

MOOCS

COUSERA & UDEMI

> Machine Learning Specialization



PROJETS

AQUARIUM AUTOMATION SYSTEM (ONGOING)

2022

Currently working on developing a system for automate the process in commercial aquariums. This includes water quality monitoring and performing needed actions in an anomaly. Automating the fish feeding process. A dashboard will be provided to the owner's mobile phone for monitoring and commanding.

VOLTAGE REGULATOR 2022

Developed a voltage regulator for high power applications. Regulated voltage is 28 volts with a maximum current rating of 30 amperes. An over current protection circuit was also added. In this project, maintaining the ripple ratio at an acceptable level and thermal management played a prominent role.

Altium | Solidworks

VIS-BRIDGE 2022

github.com/Pasindu-Sankalpa/project-SPARK

This device can control the electrical equipment based on the hand gestures given by the user. The project was developed based on the Raspberry Pi single board computer. Computer vision algorithms was employed to identify the hand gestures. A power electronic circuit controlled the power delivered to equipment.

Python | Image Processing | Raspberry Pi Altium Solidworks

AUTONOMOUS ROBOT FOR COMPETITION

2021

github.com/Pasindu-Sankalpa/Robocop

We developed an autonomous mobile robot simulation for UOM's EN2532 - Robot Design and Competition Module & successfully completed the given task. It consisted of maze solving, object detection and placing, etc. Webots simulator was used as the simulation platform.

C | C++ | AVR | Webots

RGB COLOR SENSOR 2021

github.com/Pasindu-Sankalpa/RGB_Sensing

We developed an RGB color sesnor using ATMEGA328P chip. It can identify the any given surface color and give R,G,B values almost presisely. The sensing component is an LDR.

C C++ Arduino AVR Altium

AUTOMATIC WATER LEVEL CONTROLLER FOR WELL

2021

Developed an automatic water level controller for home use. Water level of tank is displayed using an LED panel. Both water level of tank and well is considered before activating the pump.

C | C++ | Arduino | Altium | Solidworks

MOBILE CHARGER WITH TIMER 2019

I have developed a simple mobile charger with timer using an arduino nano for my personal use. Currently in operation.

Arduino



ACHIEVEMENTS

Top 10

SPARK Challenge, UNIVERSITY OF MORATUWA

2022

Our project is Vis-bridge

Team Voyager-3

Top 50 in LK 2021,2022

IEEE Extreme, IEEE

Rank 20 in LK IEEEXtreme 16.0

Rank 49 in LK IEEEXtreme 15.0

Top 10 | National Statistics Olympiad Competition, Institute of Applied Statistics - Sri Lanka

2015 > Won a merit pass



EXPERIENCE

Present

Home visiting tutor, ONLINE TUTOR

2019

- Physics & Combined Maths Tutor for AL students
- Maths Tutor for OL students
- Online teaching using ZOOM platform

Present

Member of Electronic Club, UNIVERSITY OF MORATUWA

2019

We could be able to successfully conduct many events and workshops as a team

Present 2020

Member of IEEE Society, IEEE



Sinhala(native), English Languages Programming skills C, C++, Python, Matlab, Git

Technical Skills Altium, Arduino, Raspberry Pi, Multisim, Solidworks Soft Skills Leadership, Teamwork, Time management



Dr.Ranga Rodrigo

Head of Department

DEPT. OF ELECTRONIC & TELECOMMUNICATION ENGINEERING University of Moratuwa



ranga@uom.lk +94 11 26 40422 Prof. L.W.P.R.Udayanga Professor

DEPT. OF ELECTRONIC & TELECOMMUNICATION ENGINEERING University of Moratuwa



ruwanu@uom.lk +94 77 783 1683

