Praveen Dhananjaya

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Objective:

Computer Engineering Undergraduate who is highly motivated about Robotic and automated system development.

Education:

Present **Bachelors of Engineering:-** *Faculty of Engineering , University of Peradeniya* Sri Lanaka
Specialization : Computer Engineering
Current GPA : 3.364 / 4.000

Present **Cisco Cybersecurity:-** *Cisco networking academy*

2016 **GCE A/L:-** *Sri chandananda buddhist college Maths - A , Physics - B , Chemistry - B*

2013 **GCE O/L:-** *Sri chandananda buddhist college*

Technical Skills:

Programming languages

Java , C , C++, Python

Hardware programming

arduino , AVR C , PIC , ARM Assembly

FPGA

iverilog

Database

MySQL

Version control

Github

Web Development

HTML , CSS , php

PCB design

Altium , eagle , easyeda

3D modeling

Fusion 360 , solidworks

kinematics system

kinematics for robotic system

Academic Projects

1.Smart warehouse management system :

Developing automated warehouse handle by AGV and Robot arm so this system is capable handle loading/unloading of goods. And e-shopping website so worldwide customers can buy their products.
Technologies : fusion 360 , custom PCB easyeda , Arduino ESP12 and uno , mqtt , AWS server , Python base UI ,
github : https://github.com/cepdnaclk/e16-3yp-smart-pharmaceutical-warehousing

2.FPGA base processor :

Fully functional 8 bit CPU single thread pipeline processor. Which include ALU , ram , instruction memory , data memory and ext.
Technologies : Harvard architecture , iverilog

3. 8 bit computer :

8 bit common bus computer architecture. Tri stage base control system. Capable handle low memory consume algorithms (ex:- fibonacci sequence)
Technologies : Common bus architecture , custom PCB , Python base program interface(assembly)
github : https://github.com/praveendhananjaya/8-bit-computer

4.hospital management system :

Web application with Database for hospital patient and medicine management in order to billing and patient data re-coding .
Technologies : MySQL base data management system. This system run on apache php server and HTML user interface.

5.Fractal Visualizer:

JAVA OOP base programme.
Technologies : JAVA , OOP , Witch is accelerated by tiled base multi threading

Other Projects

1.Micro Mouse:

14×14 Maze solving robot
Technologies : Arduino uno base robot with schedule base multi multiprocessing , Custom PCB , IR base sensors with active filtering

2.Surveillance camera system

Suspicious activity tracking . ex:- Face covers , Abandoned packages , suspicious object , unauthorized people
Technologies : python , tensorflow

3.CNC

3 axis computer numerical control machine.
Technologies : fusion 360 , mach 3 controllers , toolpath , material fabrication steel aluminium wood plastic , high induction motor control profile

4.Project Lamos

landslide monitoring system , low cost landslid detection and alarming system
Technologies : flexible piezoelectric sensor and single analyse , UDP communication using WiFi network

Certificates and Competitions

2020 **Aces coders** *4st place*
2019 **Mora Xtreme 4.0.** *1st place*
2019 **SLIIT MicroMouse** *3st place*
2019 **Aces hackathon** *1st place* Surveillance camera system
2019 **Jaffna coders** *4st place*
2019 **Aces coders** *participation*
2018 **Aces coders** *participation*
2018 **Aces hackathon** *1st place* project lamos landslide monitoring system