

Praveen Dhananjaya

Contact Information:

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Summary:

Computer Engineering Undergraduate who is highly motivated about Robotic and automated system development. Seeking an internships in cyber physical systems for the time period 20xx.xx.xx

Education:

- Present **Bachelors of Engineering:-** *Faculty of Engineering , University of Peradeniya Sri Lanaka*
Specialization : Computer Engineering
Current GPA : 3.364 / 4.000
- Present **Rapid Embedded Systems Design and Programming:-** *Arm EDUCATION MEDIA ACCELERATED LEARNING*
industry-standard Arm Mbed API tool and Keil MDK
- 2021 **Neural Networks and Deep Learning:-** *coursera*
Grade Achieved: 92.80/100
- 2021 **Cisco Cybersecurity:-** *Cisco networking academy*
- 2016 **GCE A/L:-** *Sri chandananda buddhist college*
Maths - A , Physics - B , Chemistry - B ,
z-core 1.83 , national ranking - 1206 from 25000+
- 2013 **GCE O/L:-** *Sri chandananda buddhist college*
6A pass and 2B pass

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/cepdnack/e16-3yp-smart-pharmaceutical-warehousing>

2.FPGA base processor :

Fully functional 32 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 , robot navigates to target using A* algorithm and using flood fill algorithm find out the shortest path , 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.landslide monitoring system

landslide monitoring system , low cost landslid detection and alarming system

Technologies : flexible piezoelectric sensor and single analyse , UDP communication using WiFi network

smart wound

Certificates and Competitions

- 2019 **SLIIT MicroMouse** *3rd place*
14×14 Maze solving robot competition.Using small robot
 - 2019 **Aces hackathon** *1st place* Surveillance camera system
Suspicious activity monitoring system.
 - 2018 **SLIIT MicroMouse** *3rd place*
14×14 Maze solving robot competition.Using small robot
 - 2018 **Aces hackathon** *1st place* landslide monitoring system
landslide monitoring system , low cost landslid detection and alarming system
- coding Competitions*
- 12-hour algorithmic coding nationwide competition*
- 2020 **Aces coders** *4th place from*
 - 2019 **Mora Xtreme 4.0.** *1st place*
 - 2019 **Jaffna coders** *4th place*
 - 2019 **Aces coders** *participation*
 - 2018 **Mora Xtreme 3.0.** *participation*
 - 2018 **Aces coders** *participation*

Extracurricular Activities

- 2019 **Member of the Music Society of the University of Peradeniya**
- 2018 **Member of the drama Society of the University of Peradeniya**
- 2011 **Member of the Art Society of school**
- 2010 **school rugby team**
- 2009 **school hockey team**

Other Interests and Hobbies

3D modeling and digital art

CNC furniture and decorations

vehicle repair and modification

References