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Sri Lanka.

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Email
pthenukan07@gmail.com

GitHub
 (Thenukan Pathmanathan)

LinkedIn
Thenukan Pathmanathan

CAD&DESIGN SKILLS

SolidWorks

Altium Designer

NI Multisim

Thenukan Pathmanathan

About me

Third-year Electronic and Telecommunication engineering student at University of Moratuwa, A person with a strong sense of creativity, Ability to adapt easy to a new environment, problem-solving abilities, and a strong desire to learn.

Education

2018 - present
UNIVERSITY OF MORATUWA
BSc. (Hons) in Electronics and Telecommunications Engineering – Currently reading in Semester 5
CGPA: 3.55 as at Semester 4 (out of 4.2)

2004 - 2017
KN/Kilinochchi MV
Advanced Level
3A s (Island Rank 98 | Z = 2.3040)

Relevant modules

- *Data structure algorithm A+*
- *Electronics I - A-*
- *Communication Systems and Networks- A-*
- *Digital Signal Processing- A*
- *Electromagnetics- A-*
- *Analog and Digital Communication – B+*
- *Electronics – III B+*

Skills

1. *Programming Languages*
   Python (NumPy stack, OpenCV) | Java SE | MATLAB | C++.
2. *Web Development (Back end)*
   Django
3. *Machine Learning & Neural Networks in Python*
4. Microcontroller Programming
   Arduino
5. *Digital Design*
   Verilog

Languages

- *Tamil (Native proficiency – Speaking and writing)*
- *English (working proficiency)*

EXTRA CURRICULAR ACTIVITIES

- member in st'john ambulance
- Student Member of Institute of Engineers Sri Lanka
- Member in Tamil literary Association
- Tutor(physics)
- Member of media academy (university)

Referee 1

Chamira U. S. Edussooriya

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University of Moratuwa,
Sri Lanka.

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Referee 2

Dr. M.A.U.K. Premaratne
Senior Lecturer Grade 2
Dept of Electronic and Telecommunication Engineering,
University of Moratuwa ,
Sri Lanka. B.Sc.Eng (Moratuwa),
M.E.Sc. (Western Ontario), PhD (Melbourne), LLB (OUSL)

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Email - upeka@uom.lk

Projects

- **Berryminator (Ongoing).**
  2021 -Autonomous robot that can recognize different varieties of berries, determine whether they are ripe to harvest, and pick them if they are. (Currently doing this in CoppeliaSim and Python Remote API to interface with CoppeliaSim Robot Simulator).
- **Detecting COVID-19 with Chest X-Ray using PyTorch**
  Create custom Dataset and Data Loader in PyTorch Train a ResNet-18 model in PyTorch to perform Image Classification create an image classification model that can predict Chest X-Ray scans that belong to one class.
- **Multitasking Robot group project on webots.**
  2021 - line Following Task, Curved Following Task, Ramp Task, Color Detection Task, Pillar Detection Task, Maze Solving Task and Synchronous Gate Detection and Passing Task.
- **Analog Self-Balancing Robot group project (Partially completed).**
  2020 - a small bot that stands erect on its own two wheels using only analog component.
- **line-following and wall-following robot group project.**
  2019- It is designed to move automatically and follow the black line also it is designed to move along a wall without hitting it using ATmega 328.
- **Web development in the backend for t-shirt sales**.
  2021- Created a backend with admin using Django REST framework | SQLite.

Honors, Awards & Certificates

- *Certificated for completing Machine Learning offered by Coursera.*
- *Certificated for completing Neural Networks and Deep Learning offered by Coursera.*
- *LinkedIn badge for successful completion and involvement in RaspberryPI JAM series.*
- *MoraXtreme 5.0 Coding competition (42 out of 150+ teams)*
- *CODECHEF Coding competition (70 out of 1200+ teams)*
- *Mahapola Higher Education Merit Scholarship granted by the Government of Sri Lanka.*
- *Dialog Merit Scholar Award granted by the Dialog Axiata PLC (Z=2.3040 in nationwide GCE A/L).*

Interest

- *Networking & IOT*
- *Machine Learning & computer vision*
- Programming and Algorithm development