



MOHAMED AMRITH

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PROFILE

A self-motivated individual equipped with strong fundamental knowledge and passionate in solving real-world problems with open source cutting edge research contributions in Automation Technology and Artificial Intelligence.

RESEARCH INTEREST

- Embedded programming
- Automation Techniques
- Computer Vision
- Machine Learning

PROFESSIONAL EXPERIENCE

Instrumentation-and-control-engineer (Intern), Lanka Salt Ltd. Jun 2021 – Jan 2022
Hambantota

- Troubleshooting of Instruments during the checkout and commissioning processes
- Reviewed design for team consideration in meetings
- Regular testing and evaluation of Various instrumentation design
- Sorted, organized and maintained files.
- Provided clerical support, addressing routine and special requirements.
- Completed research, compiled data and assisted in timely reporting.

EDUCATION

B.Eng. Tec (Hons) in Instrumentation And Automation Engineering, University of Colombo Feb 2017 – Aug 2022
GPA: 3.4 (Second Upper Class) Srilanka

GCE Advanced Level, BT/BC/KATTANKUDY CENTRAL COLLEGE Feb 2016
High Distinction Science for technology, Engineering technology and ICT with Z-Score of 3.4201
District Rank : 1, National Rank : 5

MOOCs

Self-Driving Cars Specialization (on Coursera)
DeepLearning.AI TensorFlow Developer Specialization (on Coursera)
IBM AI Engineering Specialization (on Coursera)
Developing Industrial Internet of Things Specialization (on Coursera)

SKILLS

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|---------------------------------------------------------------|-----------------------------------------------------------------------|
| Languages: Python, C++, C, MATLAB | Microcontrollers: Atmega, PIC, FPGA, Microchip Studio, Proteus |
| Industrial Automation: PLC, SCADA, SolidWorks, AutoCAD | Frameworks: PyTorch, Tensorflow, Keras |
| Clout Computing: AWS (EC2, S3), Microsoft Azure (VM) | Utilities: PyCharm, VSCode, Git |

PROJECTS

Self driving car prototype using machine learning algorithm.

Final year project. Path planning, obstacle identification and avoidance, sign and traffic lights detection all done using Computer vision and Sensor fusion algorithms on Raspberry pi

Robot Arm Control both mobile application and desktop application.

This is a 6 DOF 3d printed robot arm using arduino. Controlled by Wi-Fi, Bluetooth, and Serial communications.

Skin Cancer Detection Segmentation

Skin cancer detection, classification and segmentation based on the HAM10000 and ISIC dataset archives.

Face recognition based attendance system

Here we are using caffe and pytorch frameworks, using that we detect and extract the features and covert into blob file . I explain the code in line by line in the code files.

RELEVANT COURSEWORKS

Embedded Programming

IA 2010 Digital Electronics Laboratory (A-), IA 2004 Electronic Circuit Simulations (A), IA 2020 Microcontroller Laboratory (A+), IA 3016 Computer Programming (Mini-Project) (A+), IA 3017 FPGA (A+)

Mathematics

IA 3011 Applied Numerical Methods (A), IA 2006 Calculus and Differential Equations (A+), IA 1005 Vectors and Matrices (A)

Machine Learning

Advanced Computer Vision with TensorFlow (A+), Supervised Machine Learning: Regression and Classification (A+), Unsupervised Learning, Recommenders, Reinforcement Learning (A)

Industrial Automation

IA 3003 Sensors and Transducers (A-), IA 4007 Precision Measurement Techniques and Calibration of Instruments (A), IA 4011 Nuclear and Medical Instrumentation (A-), IA 4030 Programmable Logic Controllers (A), IA 4060 Instrumentation Laboratory (A+), IA 4009 Fiber Optics and Laser Instrumentation (A), IA 4006 Shielding and Protection of Electronic Instruments (A)

VOLUNTEERING AND PROFESSIONAL SERVICES

Student Representative

- Department of Instrumentation and Automation Engineering.

Coordinator

- Robotics Club, Faculty of Technology

REFEREES

1. Dr. Darshana Perera

Head of the department/Lecturer,
Department of Instrumentation and Automation,
Faculty of Technology.
University of Colombo.
Tel: +94772255472
Mail: darshana@iat.cmb.ac.lk

2. Chathurika Sewwandi Silva

Lecturer,
Department of Instrumentation and Automation,
Faculty of Technology.
University of Colombo.
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Mail: chathurika@iat.cmb.ac.lk

DECLARATION

I truly and sincerely attest that the above information furnished by me it's true and accurate to the best of my knowledge.

Mohamed Amrith