

Saaadat Lone

Software Engineer, Cyberjaya, Malaysia
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PROFILE

Results-driven and motivated Software Engineer with a demonstrated experience in improving software performance, testing and updating existing software, and developing new software functionalities. Offers proven track record of extraordinary achievements, strong attention to detail, and ability to finish projects on schedule and within budget.

EXPERIENCE

Vortex Edge

Cyberjaya, Malaysia

Embedded Systems Design Engineer

2017 – Current

- Developed and tested Hotspot detection software using a Thermal Imager.
- Developed and tested Auto Tracking System for UAV to ensure data and video feed retains quality.
- Developed a live stream from the UAV to GCS over web.
- Developed a cloud-based GCS software to communicate with the UAV.
- Developed a livestock counting software using deep learning that gets live feed from the UAV.
- Promoted to Senior Developer in July 2018, Team lead since January 2019.

Intel Corporation

Kuala Lumpur, Malaysia

Intel Student AI Ambassador

2019 – Current

- First Intel student AI Ambassador in Malaysia.
- I test Intel AI Products and promote them during events and meetups.

Ideasparq Robotics

Selangor, Malaysia

Research and Development Engineer - Intern

2015 – 2015

- Enhanced latest AGV Hardware and Software.
- Updated circuit board to make it more compact.
- Tested various sensors and Lidars throughout my 3 months internship.
- Designed a technique to dock AGV to charge autonomously.
- Designed a surge protector circuit to protect electronics from random spikes.

EDUCATION

International Islamic University Malaysia

Selangor, Malaysia

Master of Science in Mechatronics Engineering

2016 – 2019

Thesis Title: Path Planning Algorithms for Automated Guided Vehicles (AGVs)

CGPA: 3.671

Researched on various greedy algorithms such as Dijkstra and A* Path Finder. Collected AGV path data and trained a Neural Network to find the optimal path. Concluded on A* and Dijkstra outperforming the NN.

International Islamic University Malaysia

Selangor, Malaysia

Bachelor of Engineering in Mechatronics

2012 – 2016

Final Year Project: Soft Pneumatic Exoskeleton for Wrist and Thumb Rehabilitation

CGPA: 3.591

During my final year, I developed an exoskeleton for stroke patients, which I designed, and 3D printed using an industrial grade printer. I used soft pneumatics to mimic the human muscle and used relays and a linear potentiometer and programmed a PID controller to complete the feedback loop. Awarded 6 Dean's List in a row (CGPA above 3.5 in a Semester) and Rectors List (Overall best 1% with 3.5 above CGPA).

SKILLS

Programming:

Python, Javascript, Golang, C/C++, Bash

Analytics:

Jupyter Notebook

Web:

NodeJS, Flask, HTML/CSS, React

Database:

MySQL, MongoDB, SQLite3

Deep Learning Frameworks:

Tensorflow, Pytorch, Keras, Fastai

Cloud Computing Services:

GCP, AWS