

Curriculum Vitae

Jaiaid Mobin

Contact Inforamtion

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Github Link

<https://github.com/Jaiaid>

Professional Project Work

- **RailStation Platform Control Application**
 - Implemented object detection system in **C++** using **OpenVINO** sdk for **Windows10** based application
 - Implemented signal blinking detection from specified area in **C++** using different filter from **OpenCV** sdk and some heuristic
 - Implemented relay control over tcp in **C++** using windows networking library and knowledge from the dataset
- **Smartphone User Detection**
 - Collected Data and trained machine learning model inspired from a given paper in **Python3.6** using **numpy**, **scikit-learn** package
 - Implemented simple communication over http protocol locally to connect front end code and backend ml inference using **flask**, **json** package
- **Content Based http/https Traffic Filtering**
 - Implemented local cache in **C++** using **sqlite** library in **Windows** client PC(**Windows10**) application
 - Written simple **javascript** for browser based control panel of client PC application

Academic Project Work

- **Sign Language Translator :**
 - Implemented gravity corrected gyroscope and accelerometer value reading system from **MPU6050** break-out board using <https://github.com/jrowberg/i2cdevlib/tree/master/Arduino/MPU6050> library to interface with Arduino
 - Created a representation of the needed movement to indicate 17 signs
- **Obstacle Detection and Surface plotter :**
 - Written code for a depth measurement system using **HC-SR04** sonar sensor controlled by ATmega32 microcontroller
 - Implemented a plotting mechanism on 12864ZW lcd screen to depict the 2d surface topology

- **A Cineplex Management Web Application**
 - Written backend code in **php5 on Laravel4**
 - Database implementation for **Mysql DBMS**

Education

- **B.Sc. in Computer Science and Engineering** Dept. of Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET).
Graduation Year - 2017, CGPA - 3.57

Publication

- A heuristic aided Stochastic Beam Search for solving transit network design problem
 - <https://www.sciencedirect.com/science/article/abs/pii/S2210650218302414>

Accomplishments

- Bangladesh-Japan Engineers Training Program(BJET) 2nd batch (March,2018-May,2018)
- ITEE FE exam March 2018 Top Scorer among ITPEC countries (Examinee no FE01-0081)
- Achived 331 out of 340(reasoning aprt) and 3 out of 6(analytical part) in GRE on Nov 25, 2019

Reference

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