Mahammad Sarfaraz Ahmad

5-28-D2, Bantumilli Road, Gudivada, 521301, AP, India

(+91) 9553437736 | mdsahmad3@hotmail.com | mdsahmad39 | sarfaraz-ahmad-mahammad-030607124/ |

https://mdsahmad39.github.io/ahmad-dev/

Summary

I have completed my bachelor's final year project at Blekinge Institute of Technology, Sweden. I have a keen interest in the Internet of Things (IoT) for which I have been doing work on both Software side as well as Hardware side. A well-presented, good all-round performer who when given a task, can work quickly and efficiently. Proactive attitude and strong work ethic. A highly organized, career-oriented with a zeal to achieve my goal in life. I use my interpersonal skills in responsibly and definitively. I'm exceptional with people and good at conflict resolution. Skilled at communicating complex information simply and entertainingly.

Education

Blekinge Institute of Technology (BTH)

Karlskrona, Sweden

B.Tech in Electronics and Communication Engineering -Dual Degree

August. 2019 - June. 2020

- ECTS: 60 Credits (Total credits of 4 LP's).
- Thesis title: *Raspberry Pi Based Vision System for Foreign Object Debris (FOD) Detection.*
- Bachelor's Thesis Publication: `http://urn.kb.se/resolve?urn=urn:nbn:se:bth-20198`

Andhra University College of Engineering

Visakhapatnam, India

B.Tech in Electronics and Communication Engineering -Dual Degree

July. 2016 - March. 2019

- Got a Merit Scholarship which is given to promising students in ECE Department for doing final year project at BTH in Sweden.
- CGPA: 8.26 (Average of 6 semesters).

Sri Chaitanya College

Vijayawada, India

Senior Secondary Examination

May. 2014 - April. 2016

- Percentage: 96.1%

Dr KKR's Gowtham School

Gudivada, India

Secondary Examination

March. 2014

- Percentage: 95%

Projects

Raspberry Pi Based Vision System for Foreign Object Debris (FOD) Detection.

Karlskrona, Sweden

Bachelor's Thesis

March. 2020 - June. 2020

- The main purpose of this thesis project is to design and develop a cost-effective system for detection of Foreign Object Debris (FOD), dedicated to airports.
- The proposed solution is based on a computer vision system, which comprises of flexible off the shelf components such as a Raspberry Pi and Camera Module, allowing the simplistic and efficient way to detect FOD.
- The results are obtained using background subtraction for FOD detection and implementation of SSD (single-shot multi-box detector) model for FOD classification.
- The performance evaluation of the system is analysed by testing the system to detect FOD of different size for different distances.
- The web development is also implemented to notify the user in real-time when there is an occurrence of FOD.

Modifying Coffee Maker into an IoT Device

Karlskrona, Sweden

Mini-Project

December. 2019 - February. 2020

- The main purpose of this project is to monitor the coffee maker using Arduino, Sensors as well as implementing IoT(Internet of Things).
- The system will monitor the coffee maker's temperature, the coffee maker's power consumption, coffee's level and the real-time required to prepare it.
- Web-interface is also implemented, so that user can monitor coffee maker from anywhere as well giving basic control's to user in web-interface.
- The final result will give an estimate of the coffee maker's performance depending on the time, temperature, power consumed and level of coffee.

A Simplified Client-Server Solution for File Management using Python

Karlskrona, Sweden

Mini-Project

September. 2019 - November. 2019

- Worked as a single member to prepare a client-server model which is used all around us such as websites, chat programs, and e-mail.
- The server program awaits requests done by the client program and begins working on a request as soon as it is received.
- Server can perform operations such as creating new user, creating new folder and modifying folder, creating new text file and modifying text file.
- Users created during one session are also available the next time the server is started, and all folders, files, and data are properly accessible each and every-time.

Skills

Web Dev	HTML, CSS, JAVASCRIPT, Flask, Django, React, MySQL.
Programming	Python, Java, C++, MATLAB, LaTeX.
Misc.	Working with Embedded systems such as Arduino UNO and Raspberry Pi, Academic research, Teaching, LaTeX report writing.
Languages	Strong reading, writing and speaking competencies for English, Hindi, Telugu, Urdu.

Key Competencies & Personal Skills

- Accepting feedback & taking constructive criticism well.
- Able to develop and maintain good relationships with Students, Teachers Staff.
- Being a positive role model for younger students.
- Ability to produce consistently accurate work even whilst under pressure.
- Willingness to share skills, knowledge and expertise.
- Going the extra mile to make a difference, having the drive to lead and succeed. report writing.
- Bringing good ideas to Life and Taking the Initiative.
- Conducting Research and Operational Support.
- Quick Learner and very good at Analytical approach.
- Motivated Enthusiastic with Strong work Ethic.
- Clear and informative written and verbal communication skills.
- Ability to work quickly and efficiently with little supervision.
- Being alert to what is going on in an organization.