Md Samiul Islam Sagar

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Education _____

Washington State University

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Vancouver, WA-98686

August 2021 - on going

Khulna, Bangladesh

Khulna University of Engineering and Technology

BACHELOR OF SCIENCE IN ELECTRICAL AND ELECTRONIC ENGINEERING, GPA: 3.57/4.0

March 2019

Thesis: Design and Construction of IoT Based Energy Meter with Complete Bypass Protection and Demand Side Load Management

A complete model of hardware of energy meter has been designed in this purpose where the demand side load management has been implemented by IoT and the new approach of power factor measurement has been implemented. The website has been designed by using PHP and the server system was MySQL

Skills _

Programming Languages Python, JavaScript, PHP, C and C++, Matlab/Octave

Frameworks AWS, Johnny-five, Flask

Programming Platform Unix, Windows, Linux, Web

Designing and Simulation Platform

Ansys HFSS, Solidworks, AutoCAD, Autodesk Eagle, Autodesk Maya, Proteus.

Embedded System

Arduino, Raspberry Pi

Hardware Skills

Inkjet Printing, Photolythography, Sputtering, Power Electronics Circuit Designing, Microcontroller, Antenna D

Fabrication

Professional Experience _____

UNITED INTERNATIONAL UNIVERSITY, BANGLADESH

A DIGITAL HEALTH PROVIDER INSTITUTION OF BANGLADESH

AIMS Lab

Research Engineer

Nov 1, 2020 - Jan 31, 2021

http://aimsl.uiu.ac.bd/

CMED Health Ltd.

Junior Data Analyst

Feb 1, 2021 - Jul 31, 2021

https://cmed.com.bd/

Research Interest

Machine Learning, Intelligent Sensor Design and Fabrication, Robotics, Automation

Aptitude and Language Test _____

TOEFL: 93 Speaking-24, Reading-27, Listening-21, Writing-21

GRE: 302 Quant-156, Verbal-146, AWA-3

Publications

High Temperature Antennas: A Review

Progress In Electromagnetics

Research B

BACHIR YOUNES, MD SAMIUL ISLAM SAGAR, ASIF I OMI, NOAH R ALLISON, DANIELLE GEDLICK, PRAVEEN K SEKHAR

2022

Application of Machine Learning in Electromagnetics: Mini-Review

MDPI-electronics

MD SAGAR, SAMIUL ISLAM, HASSNA OUASSAL, ASIF I OMI, ANNA WISNIEWSKA, HARIKRISHNAN M JALAJAMONY, RENNY E FERNANDEZ, PRAVEEN K SEKHAR

2021

Simulation study on an ICT-based maritime management and safety framework for movable bridges

MD MOSTAFIZUR RAHMAN KOMOL, MD SAMIUL ISLAM SAGAR, NAEEM MOHAMMAD, JACK PINNOW, MOHAMMED ELHENAWY,

MDPI-Applied Sciences

MAHMOUD MASOUD, SEBASTIEN GLASER, SHI QIANG LIU

2021

Region Based Convolutional Neural Network for Smart Driving Monitoring System

5th International Conference on Advances in Electrical Engineering (ICAEE), Dhaka, Bangladesh

201

SOURIN DEY, Md. SAMIUL ISLAM SAGAR, Md. ASHRAFUL ALAM

Finest Projects _____

Green Car

SOFTWARE PROJECT

A system designed for reduction of the emission of CO2 from automobiles with the help of biological elements (Algae). The green tube is referring to the Algae storage where the filtered exhaust gas will be sent and Oxygen will be created by the photosynthesis which will then be provided in the engine for increasing efficiency.

IoT Based Smart Wheel Chair

HARDWARE PROJECT

A model of a Wheel chair designed for disabled person having the features of IoT based monitoring system of medical parameters (heartbeat, blood pressure, temperature) with GSM based location tracking system and alarm system for emergency health situation.

New Blood Pressure Measuring Algorithm

SOFTWARE PROJECT

A new algorithm has been introduced there for measuring blood pressure for both regular and irregular heart beat patient.

YOLOv3 based Classifier

SOFTWARE PROJECT

An YOLOv3 Network development for restaurant management automation.

Efficient Fire Extinguisher and Emergency Exit

IDEA

This idea is about stopping fire at the starting point. The fire extinguishers will be used directly in the circuit board where the fire actually broke down. The next part is about an alternative emergency spiral exit system around the building infrastructure.

Bluetooth Controller Car

HARDWARE PROJECT

A bluetooth based Android controlled robot.

3D Printer

HARDWARE PROJECT

A low cost 3D printer model.

Voice Tracking Speech Data Acquisition

SOFTWARE PROJECT

A program where speech data is been acquired by tracking the voice availability in the input side.

Color Based Object Recognizer Robotic Arm

HARDWARE PROJECT

It is model of industrial robotic arm which can sense color and make decision of where to put an object of specific color.

Top Achievements _____

Intra KUET Olympiad of Mathematics

2nd Runners-up

DEPARTMENT OF MATHEMATICS, KUET

2015

ROBOLUTION, MIST Robotics Club, Bangladesh

PROJECT: LINE FOLLOWING ROBOT

Participation

2016

Microsoft-Young Bangla Internship Program

PROJECT: GREEN CAR

Participation 2017

Workshop on Raspberry Pi: Project Design and Implementation

PROJECT: RETRO PI

Participation

Horizon: MATLAB Mania

COMPETITION ON MATLAB PROGRAMMING

Member of the Judge Panel

2017

Extra-curricular Activities

General Secretory of KUET Math Club

Class Representative

Mentor of EEE Makers' Hub of KUET

Office Secretary on IRAS, KUET

Blood Donation Campaign

Arranging Math Olympiads and managing club activities throughout the year

Managing classes and exams and assisting teachers in conducting lectures

Arranging different technical skill based workshops and mentoring them

Arranging different research and innovation based workshops and mentoring them

Regular blood donor

References _

Dr.Praveen Sekhar

praveen.sekhar@wsu.edu

ASSOCIATE PROFESSOR, ELECTRICAL ENGINEERING, WASHINGTON STATE UNIVERSITY, VANCOUVER, WA-98686

Dr. Md. Rafiqul Islam

islambit@yahoo.com

Professor, Department of Electrical and Electronic Engineering, Khulna University of Engineering and Technology

Dr. Ashraful Ghani Bhuiyan

ashraf@eee.kuet.ac.bd

Professor, Department of Electrical and Electronic Engineering, Khulna University of Engineering and Technology