KHANDAKER EHSANUL KARIM

BACHELOR OF SCIENCE – ELECTRICAL AND ELECTRONIC ENGINEERING

EDUCATION

Chittagong University of Engineering and Technology — Chittagong, (2015–Present)
Electrical and Electronic Engineering   CGPA: 2.88/4.00 (Final year)

Savar Cantonment Public School and College — Savar, (2001–2015)

JSC	GPA: 5.00/5.00	(2010)
SSC in Science	GPA: 5.00/5.00	(2013)
HSC in Science	GPA: 5.00/5.00	(2015)

TECHNICAL SKILLS

C, C++, Python, JavaScript, MATLAB, Arduino, LaTeX
Basic knowledge on Object Oriented Programming, HTML5, CSS
Also familiar with SQL, git, github, Linux CLI

EXPERIENCE

Andromeda Space and Robotics Research Organization(ASRRO)
President   CUET (October 2019 - December 2020)

- Organizing Itra-University and Inter-University based technology programs.
- Organizing various seminars and workshops.
- Showcasing our projects in schools, colleges to grow the interest in robotics.

National Robotics Competition TechnoCraze-2019
Organizer   CUET (October 2019)

I was one of the organizers of National Robotics Competition TechnoCraze-2019 held in CUET. Contestants from different Universities all over the country had participated on the program. There were 3 events in the competition. The events are - Robo-Soccer Competition, Project Presentation, Idea Competition.

PERSONAL PROJECTS

DX-Ball Clone   (August 2020)

I have created a clone of a popular game DX-Ball using JavaScript while learning about JavaScript programming language. Here I have used p5js library to draw animation on HTML canvas element.

Sorting Algorithm Visualization   (September 2020)

It always helps a lot to understand something, when we observe it with our eyes. So I have tried to visualize some common sorting algorithms. In this project I have used JavaScript with p5js library.

GIF Search Engine   (January 2021)

This project shows GIF result, as requested by user, by using the web API of two popular GIF website, GIPHY and Tenor.

Music Player with SoundCloud API   (January 2021)

This is an online music player. Here users can search their desired music track and also can add to playlist. This project uses the web API of a popular online audio distribution platform, SoundCloud, for pulling music tracks as the user would requested.

Industrial Automation   (May 2017)

This is an industrial automation project. In this project, two DC motor driven conveyor belts had been used. A robotic hand had been used to move an object from one conveyor belt to another. An IR sensor had been used to sense any object passing the robotic hand. When IR sensor, senses an object, then the conveyor belt stops to roll and robotic arm pick the object and move to the other conveyor belt.

Achievements

RMA Footbot 2017 (May 2017)

Our team won the 2nd place in this national competition held in Chittagong University of Engineering and Technology and I was the team leader. The competition was about a football game, where two remote/bluetooth controlled motor driven robots would try to score a goal at the opponent's goal post.We were awarded 15,000 BDT for being Runners Up.

NSU Bit Arena 2017 (August 2017)

Our team won the 1st place in this national competition held in North South University. This competition was same as the previous competition. We were awarded 20,000 BDT for being Champion.

Journey in Competitive Programming (ongoing)

I have started Competitive Programming at April 2020. I have solved programming problems from various popular online judges and attended some online contests.

Codeforces	Problem Solved: 75
UVa	Problem Solved: 48
AtCoder	Problem Solved: 16
CodeChef	Problem Solved: 8
LeetCode	Problem Solved: 6

Online Certifications

Programming for Everybody (Getting Started with Python)
Python Data Structures
Using Python to Access Web Data
Using Databases with Python
Capstone: Retrieving, Processing, and Visualizing Data with Python
Introduction to Programming with MATLAB
Technical Support Fundamentals
Introduction to HTML5
Programming Foundations with JavaScript, HTML and CSS

Reference

Dr. Muhammad Ahsan Ullah
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Head of Electrical and Electronic Engineering, CUET
Moderator of ASRRO
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Md. Saddam Hossain Razo
Lecturer, CUET
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