HEDAYETUL
ISLAM

ELECTRICAL ENGINEER

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EDUCATION

UNIVERSITY OF CHITTAGONG
M.Sc in Electrical and Electronic Engineering
Apr 2022 - running

B.Sc in Electrical and Electronic Engineering
Jan 2017 - Jan 2022
• CGPA: 3.36

SKILLS

ELECTRICAL
• **PSpice** and **Proteus** for circuit design
• **Diptrace** and **SolidWorks PCB** used for creating PCB design
• Soldering and wiring

MECHANICAL AND CAD
• **SolidWorks3D**, **AutoCAD** used in various projects involving **DC Power Supply**, **Surface Modeling**, **Stregth analysis**.
• Deep knowledge of **CFD** simulation and **Volume of Fluid** method using **Ansys Fluent**.
• **Static structural** and **Explicit dynamics** analysis of a solid model

OTHERS
• Coding: **Python**, MATLAB, C++.
• Linux: **UbuntuOS**, **KaliOS**, **Raspbian**.
• Have knowledge about web**: Flask, Django,** NodeJs
• I prefer **Tensorflow** to ML and DL project.
• Create many mobile apps using **Flutter**
• Use **Adobe Illustrator** for vector design and **Premiere Pro** for video editing.
• Experienced with **Raspberry pi** microprocessors and **Arduino** microcontroller.
• Microsoft Azure service, Virtual machine

PROJECTS

SURFACE ENGINEERING
Nov 2021- running
• Design a surface to reduce the spashing of liquid. Doing a lot of simulation using **Ansys fluent.**
• Applying different Fluid physics simulation.
• Properties of **PDMS** material, gather data for making PDMS surface.

COVID-19 ICU MONITORING
Auguest 2020- Mar 2021
• Experiencd how a project becomes a **product**. A system that helps hospital personnels to monitoring patient bedside display **realtime** from non-covid space.
• Using light weight **Flask** framework with **Nginx reverse proxy** server in **Raspberry pi**.
• **Esp-32 camera** for captureing image and send using TCP/IP protocol.
• Learn **OpenCV** and **TesserectOCR** for extracting data and various **image processing algorithm**.
• An app that can query data from **SQL** data base.
• For casing design, uses **SolidWorks3D**

GHORVARA
Dec 2019- Jun 2020
• A Flutter based app where peoples save their house rent data.
• Works with **Firestore**, **Firbase Authentcation**.

DC POWER SUPPLY
Dec 2018- Mar 2019
• Build smooth 0-60v,1A variable DC power supply with a **overcurrent protection** circuit and a LCD display at **low cost**.
• The casing was designed with **SolidWorks3D.**

SPEAKER FROM SCRACH
Auguest 2018- Nov 2018
• Learn the characteristics of different transistors (**JFET, MOSFET, BJT**).
• Obtain more than **50 times of gain** from the designed circuitry.
Design the PCB on **Diptrace** and the PCB was made only using household accesorries, fully **handmade**.

AWARD

• One of the top three team selected for National Hackathon 2019. - AI and ML recognized stereo camera for Occupational Health and Safety.

INTEREST

• Music   • Cycling
• Travel   • Game
• Biomedical   • Table Tennis