



Md. Omar Faruque Swapon

Job intension: Embedded Software Engineer

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EDUCATION

Shahjalal University of Science & Technology

Bachelor of Science in Electrical & Electronic Engineering

Sylhet, Bangladesh
April 2016 – June 2022

- Cumulative GPA: 3.02 / 4.00
- Relevant Coursework: Microprocessor & Interfacing, Digital Electronics, Electronics, Power Electronics, Optoelectronics, Control System Engineering, Electromagnetism, Optics & Modern Physics, Electronic Properties of Materials, Solid State Devices, CMOS VLSI Design.

TECHNICAL STRENGTHS

Programming: Python, C/C++, JavaScript, Assembly Language.

Framework & Library: Bootstrap, ReactJS, Django, Arduino.

Software & Tools: MS Word, MS PowerPoint, Adobe Premium Pro, Keil MDK, PlatformIO.

Microcontrollers: ATmega328P, STM32, ESP32, ESP8266.

Electronic Modules: DHT11, HX711 ADC, RFID, GSM900a, RTC DS3231, ILI9341 2.8" TFT LCD display, QAPASS 1602A LCD, PWM motor driver, Proximity Sensor, Optocoupler.

RELEVANT WORK EXPERIENCE

Training Institute of Chemical Industries (TICI)

- Experienced hands-on training on electrical safety & protection, power generation & distribution, generator, transformer, motor, and their operations, system measurement, sensing, and control

SUST Mars Rover Team

- Implemented motor driving circuits and mechanical structure of the main body of the Mars Rover.
- If you are interested to know more. You may click on the link -> <https://youtu.be/f0WCpjbQA1s>

Morse code data transmission using LASER

- My responsibility was to develop the firmware for the project.
- Used ATmega328P microcontroller for this project.

Disinfection booth

- To stop the spread of the Corona virus, I built this project for the mosque.

Employee's working time and wages monitoring system

- used RFID module for the authentication purpose and GSM900a module to send SMS to workers.
- If you are interested to know more. You may click on the link -> <https://youtu.be/hblcElmRoDQ>

RPM calculator

- Design and develop firmware to get motor RPM.

Digital Weight Scale

- Designed and develop digital weight scale system using ILI9341 2.8 TFT LCD display and HX711 ADC.

Smart Temperature and Humidity System

- ESP32 and ESP8266 based smart temperature and humidity monitoring system with ILI9341 2.8 TFT LCD display and MQTT protocol.

ACCOLADES

- Attained Championship at Maze Solver Robot Competition in Robo-droid Championship 2016, organized by IEEE RUET Student Branch
- Qualified for participation in European Rover Challenge 2016, Jasionka, Poland.