CURRICULUM VITAE

MD. HASEMI RAFSAN JANI SHOHAN

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- **Github Link:** https://github.com/Rafsan12345
- **Linkedin Link:** https://www.linkedin.com/in/md-hasemi-rafsan-0a4137268/?jobid=1234

Career objective:

Secure a challenging position within the progressive organization, where I can utilize my experience, technical skills, and creativity. I have proven leadership skills involving managing, developing, and motivating teams to achieve their objectives. I want to give assurance to maintaining high-quality standards.

Personal Information:

- **Name** : Md. Hasemi Rafsan Jani Shohan
- **Father's Name** : Md. Rafiqul Islam
- **Mother's Name** : Most. Masuma Begum
- **Mailing address** : C/o.- Md. Rafiqul Islam, Vill. Borogoli, P.O: Ghoraghat,
- **P.S.** : Ghoraghat, Dist. : Dinajpur.
- **Permanent address** : Vill. Borogoli, Post: Ghoraghat, P.S. : Ghoraghat,
- **District** : Dinajpur.
- **Date of birth** : 20th February 1997
- **Height** : 5'8'
- **Gender** : Male
- **Marital status** : Unmarried
- **Religion** : Muslim
- **NID NO.** 19972724303000049
- **Nationality** : Bangladeshi
- **Blood Group** : (VE+)

BSC In EEE:

- **Academic Year** : (November 2018 – December 2022)
- **University** : Daffodil International University
- **CGPA** : 3.10(Out of 4.00)
- **Shift** : Day

Diploma in Engineering:

- **Institute** **:** Thakurgaon Polytechnic Institute, Thakurgaon.
- **Board** **:** Technical Education Board.
- **Result** **:** 3.02(Out of 4.00)
- **Subject** **:** Refrigeration & Air Conditioning Technology.
- **Roll** 800594
- **Registration Number:**769503
- **Session** **:** 2014-2015

Higher Secondary certificate (HSC):

- **Institute** **:** Ghoraghat K,c Pilot School & College, Ghoraghat, Dinajpur.
- **Board** **:** Dinajpur Education Board.
- **Year of Examination:** 2017
- **Result** **:** 4.00 (Out of 5.00)
- **Group** **:** Science

Secondary school certificate (SSC):

- **Institute** **:** Nurzahanpur Retd. Military Colony High School, Dinajpur.
- **Board** **:** Technical Education Board, Dhaka.
- **Year of Examination:** 2014
- **Result** **:** 4.38 (Out of 5.00)
- **Group** **:** Electrical.

Various Software Experience:

- Arduino-1.6.8 and - Arduino 1.8.13 IDE (Basic to Simple Advance).
- AutoCad 2D(Electrical2020 And 2019) (Basic to Simple Advance).
- MATLAB (Basic to Simple Advance).
- LOGO! Soft Comfort For PLC(programable Logic Control Software).
- Proteus ISIS7 Professional (Basic to Simple Advance).
- TinkerCad Software (Basic to Simple Advance).
- Fritzing Project Design Software.
- Adafruit io IOT based Software.
- IFTTT IOT based Software.
- Arduino Cloud IOT based Software.
- Thony IDE and Pycharm (Basic to Simple Advance).
- Pycharm 3.7
- EasyEDA for PCB Design .

Research and Project :

Micro-Controller Project:

- Signal Receive And analysis and Controlling From Analog And Digital Sensors.
- Led Controlling Analysis Project By Using Microcontroller ATMEGA328P(Arduino Uno R3).
- Analog Input Output and Digital Input Output signal Receiving and Controlling and Provide by Using Microcontroller ATMEGA328P(Arduino Uno R3).
- Bluetooth based (Home appliance) Control Project by Using HCO5,Mobile App.
- Different Communication protocols project (UART,I2C,SPI) by Using Microcontroller ATMEGA328P(Arduino Uno R3).
- IR(TV) Remote Making and Remote Control Home Appliances by Using Microcontroller ATMEGA328P(Arduino Uno R3).
- Fire Flame Detector project by Using ATMEGA328P(Arduino Uno R3),IR Receiver Sensor.

- GSM(sms and call) based load control Project by SIM800 Module.

- Load Control By PC Or Laptop use UART Communication Protocols Project.

- LCD and 7Sigment Display Operating Project .
- PWM technic Project by Using Microcontroller ATMEGA328P(Arduino Uno R3).
- WIFI Jammer and Repeater Making Project.
- Arduino Board Making Project on Bread Board.
- Fire Switch Project(Turn On and off This fire) .
- Signal's Frequency identifier Project by Using Microcontroller ATMEGA328P(Arduino Uno R3).
- LDR Sensor based Automation Project.
- 11KV/400V 2D Substation Design Project in Autocad Electrical For Engineering Drawing(EEE336) Subject's Final Project.
- Bridge Rectifier Based Power Supply's PCB Design Project in Proteus.
- Password Based Load On Off Project by Using Microcontroller ATMEGA328P(Arduino Uno R3).
- Physical Signal To Electrical Signal Converting and Viewing With Signal Plotter Project.
- Software Based (EEE) Math Solving and Conversation Chart(pressure,Tempatature,lendth,Area) Making Project in MS Excell.
- Digital , Analog and PWM Signal Read Write Analysis And Their Controlling.
- Digital Watch Making Project Since 2March 2022 .
- Digital Luxmeter Making Project by LDR.
- Digital Volt meter and Unknown Resistance finding Meter Making Project.
- IR remote Control and Bluetooth Based DC Voltage Dimmer Controlling Module .
- Various Wave shape plotting in Arduino Serial plotter.
- Arduino Library Creating and uses ability type project.

Link: https://github.com/Rafsan12345/Micro-Controller-.git

Machine learning and Hardware Data Collecting based Project

- Using Cool Term Software for data analysis and collecting ,
- Using Microsoft excel Software for data analysis and collecting ,
- Using PLX-DLX Software for data analysis and collecting ,
- Using Adafruit io platform for data analysis and collecting through internet ,
- **"Hardware based Machine Learning(Average, CVS file handling, Data plotting, future value predicting and Data Regression)"** on my respiratory(temperature and humidity) for ten seconds activity based project in python from DHT11 Sensor.
- Date, fault time and number of fault based Machine learning project on "**Switch gear"** and protection equipment.
- "**Specific Face Detecting and Matching percentage finding project**"
- "**Face mask Detecting project**"

Link: https://github.com/Rafsan12345/Data-Analysis-Machine-Learning.git
Link: https://github.com/Rafsan12345/Python-With-Embedded.git

Micro controller based Industrial Controlling Project

- IR remote Control and Bluetooth Based DOL(Direct Online Stater) Controlling Module .
- IR remote Control and Bluetooth Based Reverse and Forward Controlling Module .
- IR remote Control and Bluetooth Based Star and Delta Controlling Module .
- Microcontroller Based ATS (Auto Change over Switching Module).
- IR remote Control Industrial DC Voltage Regulator.
- IR remote Control Based Industrial relay and Magnetic conductor Controlling.
- IR remote Control Based Industrial Change over Switch.
- IR remote Control Based Industrial State remembering Switch.
- Variable resistor based industrial Channel Changing or Load Changing project.
- Increasing and decreasing value uses based industrial load Control and load selector point making

project.

- Under and over frequency Monitoring system and their control project .
- ON and Off time Selecting delay input based industrial timer switch making project.
- Time Selecting Load Control in Seconds Making project.
- Industrial Motor Controlling and Analysis ability type Ladder Sketch drawing project for "**PLC".**
- **Digital frequency Meter** Making project and frequency based Load Control in Proteus.
- Cyclo Converter based **"VFD"** Design and simulation in Proteus.
- Optocoupler based "**zero crossing detector"** Design in Proteus.
- **"Electronics AC Voltage Dimmer"** or phase angel control Circuit Design in proteus.
- **"Digital Power factor Meter"** Design in proteus.
- **"Digital Overload Protector"** Design and Implement based project(Set, Reset, Auto Reset, Auto Set from previous set value, and Ability to delay taking action).
- **"Solid State Relay"** Circuit Design in proteus.

Link: https://github.com/Rafsan12345/Induestrial-Control.git

IOT (Internet Of Things) Based Project:

- Smart IOT Based Attendance Data logger System Project Using AdafruitIO Server.
- Smart IOT Based Home Automation System Using Arduino Cloud .
- IOT Based Load Controlling System by Social Media.
- IOT Based Load Controlling by using GSM Communication Protocols.
- IOT Based Load Controlling by using Android Device Applets.
- IOT Based Load Controlling by According Year, Month, Time And Date.
- Google Assistant based Voice and Writing Command (Load Control) IOT Project by Using NodeMcu ESP8266 .
- Internet based (Load Control) IOT Project from Any place of Earth by using NodeMcu ESP8266,AdafruitIO.Software
- Blynk App based (Load Control) IOT Project by Using NodeMcu ESP8266 .
- IOT Based Sensors Data Collecting and Storage and Controlling by Various iot Platform and services .
- IOT Based Solid State Relay Designing in Proteus.
- IOT Based Controlling on Load on off State.
- IOT Based Load Controlling on Temperature and Humidity State.
- IOT Based Load Controlling on Phone Charging State.
- IOT Based Weather (Temp & Humi) Monitoring Automatic Data Logger in Google Drive Services.
- IOT and Remote control Based Industrial Motor Controlling Switching Module .
- IOT Based Smart Traffic Light Controlling System .
- IOT Based Medical And ICU Instruments Switching Module.
- IOT based Smart Irrigation Controlling Module.
- Webserver based Microcontroller Controlling project .

Link: https://github.com/Rafsan12345/Internet-of-Things.git

Python and Micro-python language Based Microcontroller Project:

- UART communication path creating python to Microcontroller in Pycharm.
- EEE Calculator making project in Pycharm(running).
- Finger Counter-based Load Control in Pycharm.
- Password \ Specific Code Based Load Control in Pycharm and Micropython.
- DHT11 sensor data read and printed in Thonny IDE.
- GPI\O, PWM, Digital, and Analog input output Sketch writing and their control based project in Micropython.
- IOT-based Home Automation using Socket programming in Micropython.
- Micropython-based Data sending and data receiving and load control through IOT platfromAdafruit and IP 191.168…… link Protocols.
- Micropython-based Web request sending project.
- UART Comunication write based project in micropython.

- Key-board and External buttons based like the "**EVM**(Electronic voting machine)" project inMicropython (Re-voting, NID and total vote checking ability)use thonny IDE.
- Python and Micropython self Library Creating and uses ability type project.
- **Increasing, Decreasing, and Set Reset-based** Load Controlling in Micropython.
  Wifi-based **Digital Watch** Making from NTP server with LCD display by using micropython.
- I have created an **"Embedded MicroPython library"** called "**EasyPython**" for ease of use, similar to the popular Arduino coding reference.
- Self-made "**Voice Assistant with Load Control"** Using Python Voce protocol like googleassistant.

Link: https://github.com/Rafsan12345/Micropython.git
Link: https://github.com/Rafsan12345/Python-With-Embedded.git

Computer Vision and image processing project

- **"Face detecting load control"** Using python CV2 and Mediapipe protocol.
- **"Hand detecting load control"** Using python CV2 and Mediapipe protocol.
- **"Web Cam or IP link Based Face and Hand Detecting Load Control".**
- **"Human Face Detecting Based Computer Automatic Shutdown"** project.
- **"Object Color Detecting"** project.
- **"Security Camera with object movement detecting"** project
- **"Image or Video processing based Smart Solar trucking "** project
- **"Image text to string text converting" project**
- **"New and Old Money Identification" project on ticket machine problem of Dhaka metro rail.**
- **Image contours find and their operation type project.**
- **"Car Number plate Detection"**
- **"Finger gap Detecting based Fan regulator and display leveling or volume control Model "**
- **"Number of coin and shape contours detecting project "**
- **"Smart Car parking based Free space counting and detecting "**
- **"Simple Non-Electric cork sheet Board Converted to Touch screen board project based on image processing"**
- **Gesture Control AC Voltage Angle Regulator**
- **Attempts have been made to create a system similar to HMI and SCADA.**
- **virtual steering wheel and speed control System for a Robot Control Vehicle/car by only hand Gesture Movement**

Link: https://github.com/Rafsan12345/Computer-and-Robotics-Vision-.git

Software Development Project

- "**Industrial Power factor Calculator**" project
- "**IP link-based Object Movement Detector and Image capture**" project
- **"Password-based Embedded Controller and Home Automation Connector"**
- **"Solar System Calculator 0.1"**

Link: https://github.com/Rafsan12345/Software.git

AutoCAD Electrical and PCB Design Project

Link: https://github.com/Rafsan12345/AutoCAD-Electrical-Desing.git
Link: https://github.com/Rafsan12345/PCB-Design.git

Training Experience:

- EIM(Electrical Installation and maintenance) Course From Brac Institute Of Skills Development (ISD) Since 2018.
- RAC(Refrigeration & Air Conditioning) Course From Brac Institute Of Skills Development (ISD) since 2018.
- 360 Hour Basic Course on Refrigeration & Air Conditioning From Thakurgaon Polytechnic Institute, Thakurgaon since 2017.
- Basic Computer Skill Course from "IT LEARNING CENTER" Thakurgaon since 2017.
- Induestrial Training (After Diploma Education) from ISD since 2018.
- Basic Electronic Course From TTSC(Thakurgaon Technical School And Collage) since 2015.
- "Journey with Raspberry" Training Course From Daffodil Robotics Lab Since 25 March 2022.
- "Industrial Microprocessor ARM1768 and Sensors" Control Training From Daffodil Robotics Lab Since 27 May 2022.
- Asics of Artificial Intelligence" Course from "Robi 10 Minute School".
- "Fire Safety Awareness" Course from "Robi 10 Minute School".
- One-day Industrial Tour at Ashuganj 225MW Power Station.

Project Link And Reference:

- https://github.com/Rafsan12345/Micro-Controller-.git
- https://github.com/Rafsan12345/Induestrial-Control.git
- https://github.com/Rafsan12345/Internet-of-Things.git
- https://github.com/Rafsan12345/Micropython.git
- https://github.com/Rafsan12345/Python-With-Embedded.git
- https://github.com/Rafsan12345/PLC-programming.git
- https://github.com/Rafsan12345/MATLAB-Design-.git
- https://github.com/Rafsan12345/Design-Section.git
- https://github.com/Rafsan12345/Data-Analysis-Machine-Learning.git
- https://github.com/Rafsan12345/Software.git
- https://github.com/Rafsan12345/Computer-and-Robotics-Vision-.git
- https://github.com/Rafsan12345/AutoCAD-Electrical-Desing.git
- https://github.com/Rafsan12345/PCB-Design.git