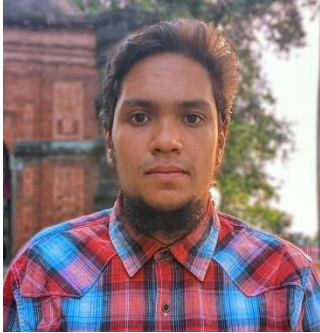


# CURRICULUM VITAE



## **MD. HASEMI RAFSAN JANI SHOHAN**

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- **WhatsApp Number :** 01784032595
- **YouTube:**  
<https://www.youtube.com/channel/UCCeFDFkFbcEpZzHHkaL9iYg/videos>
- **Github Link:** <https://github.com/Rafsan12345>

### **Career objective:**

Secure a challenging position within 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** : 20<sup>th</sup> February 1997
- **Height** : 5'8'
- **Gender** : Male
- **Marital status** : Unmarried
- **Religion** : Muslim
- **NID NO.** : 19972724303000049
- **Nationality** : Bangladeshi
- **Blood Group** : (VE+)

### **BSC In EEE (Running):**

- **Academic Year** : (November 2018 – December 2022),(Running)
- **University** : Daffodil International University
- **CGPA** : 0.00(Out of 4.00) (Running)

### **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).

### **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 7Segment 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>

### **(UART) Hardware protocol Based Data Collecting and Data analysis 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.

**Link:** <https://github.com/Rafsan12345/Data-Analysis-Machine-Learning.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.

**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 printing in Thonny IDE.
- GPIO , 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 platfrom Adafruit and IP 191.168..... link Protocols.
- Micropython based Web request sending project.
- UART Comunication write based project in micropython.
- Key-board and External button based like “EVM(Electronic voting machine)” project in Micropython (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 google assistant.
- “**Face detecting load control**” Using python CV2 and Mediapipe protocol.
- “**Hand detecting load control**” Using python CV2 and Mediapipe protocol.

**Link:** <https://github.com/Rafsan12345/Micropython.git>

**Link:** <https://github.com/Rafsan12345/Python-With-Embedded.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.
- Industrial 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.
- “Basics of Artificial Intelligence” Course from “Robi 10 Minute School”.
- “Fire Safety Awareness” Course from “Robi 10 Minute School”.

### **Project Link And Reference:**

- <https://github.com/Rafsan12345/Micro-Controller-.git>
- <https://github.com/Rafsan12345/Industrial-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/Design-Section.git>
- <https://github.com/Rafsan12345/Data-Analysis-Machine-Learning.git>