JUBAID HOSSEN

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Experience

July, 2023 – Ongoing **Senior Principle Officer, Firmware R&I** **Walton Digi-Tech Industries Ltd.** Chondra, Gazipur	Responsible for writing **Firmware** for different consumer electronics products. **Power Electronics Converter/Inverter** Design and Testing along with PCB **Used Technologies: STM32, ESP32**, **STM-Cube IDE**, **Altium Designer**
Oct, 2023 – June, 2024(0.9 yr.) **Junior Embedded Systems Engineer Apprentice Trainee** **JENCE Bangladesh**,12 Kalabagan 1st Ln, Dhaka 1205	Developing embedded **GUI** applications, Debugging and Testing embedded devices, **PCB** Designing and Testing **Used Technologies: ESP32**, MSP430, **ESP-IDF**, **LVGL**, Energia, **Git**, **EAGLE**, **KiCad**, Nano-VNA vector analyzer

Academic Credentials

Bachelor of Science in Electrical and Electronic Engineering — CGPA: 3.37/4.00
Jashore University of Science and Technology (JUST)
November, 2017 – January, 2023

Higher Secondary School Certificate — GPA: 5.00/5.00
Rajendrapur Cantonment Public School and College, Gazipur
October, 2014 – November, 2016

Projects:

Embedded file manager with graphical user interface. Self learned	A lightweight, simple file explorer with **lvgl** GUI, targeted for embedded systems. Used ESP32 and ILI9341 display with XPT2046 touch. **Technology used:** Standard C file system, SD Card, SPI Project github repo: here Demo: here
Inverter design: 800VA UPS Self learned	Inverter circuit for 800VA UPS Project github repo: here **Technology used: Proteus, EasyEDA**
PCB design: BQ25886 Li-ion Charger Self learned	2 Cell li-ion charger with BQ25886 IC, 2-A boost-mode, USB BC1.2 Detection, and USB On-The-Go Boost (OTG) Project github repo: here **Technology used: EAGLE**
Hostel meal management system using C Academic Course: **CSE1202** sessional	A terminal application to manage meal system for residential hostel/hall. This was my undergrad project of cse1202 course under Mehedi Hasan sir. Project github repo: here **Technology used:** C, File IO
PID controlled DC-DC converter.	DC-DC buck converter where the output is **constant** and not dependent on

Academic Course: **EEE3202**, Power electronics sessional	input voltage. This was achieved by introducing a **PID controllar** to control the chopper circuit. Project github repo: here **Technology used:** MATLAB

Technical Skills

- **Hardware**: **STM32**, **ESP32**, MSP430, Intel 8085, MU910 RF, Instrumentation and sensors, **Altium, KiCAD**, EAGLE, proficient in designing PCB.
- **Programming Language: C**, Python, MATLAB
- **Frameworks**: **ESP-IDF**, **LVGL(Light Versatile Embedded Graphics Library)**, Arduino
- **Web Design:** HTML, CSS, Bootstrap
- **OS**: Ubuntu Linux
- **Others**: Experience on Wireless programming – Socket, WiFi, BT classic, BLE GAP, GATT API.

Extra-Curricular Activities

- Member, Shohayok Foundation
- Volunteer at Free Medical Campaign organized by Shohayok Foundation.
- Member, JUST Robo Society
- Participant, Rotaract District Science Fair
- Teacher, Chemistry & ICT Angkur Science Care. (2-years: 2021 – 2022)

Personal Details:

Father's Name	:Md Rejaul Karim
Mother's Name	:Julekha Begum
Date of Birth	:December 2, 1998
Gender	:Male
Height(Meter)	:1.68
Weight(Kg)	:56
Marital Status	:Unmarried
Nationality	:Bangladeshi
National Id No.	:7804331275
Religion	:Islam
Permanent Address	:Ilshamari, Maderganj, Jamalpur
Current Location	:Jashore, Khulna, Bangladesh
Blood Group	:O+

References

		Reference 01	**Reference 02**
Name	:	Dr. Md Tanvir Hasan	Dr. Mehedi Hassan(Jewel)
Organization	:	Jashore University of Science & Technology	Jashore University of Science & Technology
Designation	:	Associate Professor	Assistant Professor
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Relation	:	Academic	Academic