

JUBAID HOSSEN

89/A, Hatembagh, Dhanmondi-15, Dhaka, Bangladesh

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Experience

Oct, 2023 – Now(0.7 yr.)

**Junior Embedded Systems Engineer
Apprentice Trainee**

JENCE Bangladesh, 12 Kalabagan 1st
Ln, Dhaka 1205

Developing embedded **GUI** applications, Debugging and Testing
embedded devices, Designing **custom PCB** footprints and test different
PCB.

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](#)

**PCB design: ESP32-S3 development
board with peripherals**

Self learned

A development board with ESP32-s3, SD card interface, IO and 480*320
capacitive touch **IPS display**

Project github repo: [here](#)

Technology used: KiCAD-8

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.

Academic

Course: **EEE3202**, Power electronics
sessional

DC-DC buck converter where the output is **constant** and not dependent on
input voltage. This was achieved by introducing a **PID controller** to
control the chopper circuit.

Project github repo: [here](#)

Technology used: MATLAB

Technical Skills

- **Hardware:** ESP32, MSP430, Intel 8085, MU910 RF, Instrumentation and sensors, **KiCAD**, EAGLE, proficient in making custom **footprint** and libraries
- **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

	<u>Reference 01</u>	<u>Reference 02</u>
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