

# 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

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- **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(**L**ight **V**ersatile **E**mbded **G**raphics **L**ibrary), 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

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- 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:

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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

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<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
Address	: USA(On Study Leave)	Room No: 215, Sir Jagadish Chandra Bose Academic Building,JUST, Churamonkathi, Ambottola, Jashore-7408, Bangladesh.
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Relation	: Academic	Academic