

JUBAID HOSSEN

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Experience

Oct, 2023 – Now(0.7 yr.) JENCE Bangladesh,12 Kalabagan 1st Ln, Dhaka 1205	Developing embedded GUI applications, Debugging and Testing embedded devices, Designing and Testing multi layered PCB. Used Technologies: ESP32, MSP430, ESP-IDF, LVGL, Energia, Git, EAGLE, KiCad, Nano-VNA vector analyzer
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Academic Credentials

Bachelor of Science in Electrical and Electronic Engineering Jashore University of Science and Technology (JUST) November, 2017 – January, 2023	CGPA: 3.37/4.00
Higher Secondary School Certificate Rajendrapur Cantonment Public School and College, Gazipur October, 2014 – November, 2016	GPA: 5.00/5.00

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
ESP32 as socket client Self learned	Connects ESP32 with a socket server written in java and sends data. Technology used: BSD-Socket API, ESP-IDF Project github repo: here
Hostel meal management system using C CSE1202 course project as a team leader. Academic	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. Power electronics sessional course project Academic	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
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

Technical Skills

- **Hardware:** ESP32, MSP430, Intel 8085, MU910 RF, Instrumentation and sensors
- **Programming Language:** C, Python, ASM, MATLAB
- **Frameworks:** ESP-IDF, LVGL(Light Versatile Embedded Graphics Library), Arduino
- **PCB:** KiCAD, EAGLE, proficient in making custom **footprint** and libraries
- **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