# JUBAID HOSSEN

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## Experience

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

## Academic Credentials

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

## Projects:

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| **Embedded file manager with graphical user interface.**<br>Self learned | A lightweight, simple file explorer with **lvgl** GUI, targeted for embedded systems. Used ESP32 and ILI9341 display with XPT2046 touch.<br>**Technology used:** Standard C file system, SD Card, SPI<br>Project github repo: here<br>Demo: here |
| **Inverter design: 800VA UPS**<br>Self learned | Inverter circuit for 800VA UPS<br>Project github repo: here<br>**Technology used: Proteus, EasyEDA** |
| **PCB design: BQ25886 Li-ion Charger**<br>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)<br>Project github repo: here<br>**Technology used: EAGLE** |
| **Hostel meal management system using C**<br>Academic<br>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.<br>Project github repo: here<br>**Technology used:** C, File IO |
| **PID controlled DC-DC converter.** | DC-DC buck converter where the output is **constant** and not dependent on |

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

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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

| | | 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 |
| 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 |