

MOHAMMAD ABDUL AFROZ

9652015372 ◇ Hyderabad, T.S

asi.afroz2005@gmail.com ◇ [linkedin.com/in/md-abdul-afroz](https://www.linkedin.com/in/md-abdul-afroz) ◇ github.com/abdulafroz04

OBJECTIVE

Undergraduate in Electronics and Communication Engineering. Highly motivated and adaptable individual with a passion for continuous learning and growth. With excellent problem-solving abilities and a keen attention to detail, I thrive in challenging environments and excel at tackling complex tasks.

EDUCATION

B.Tech in Electronics and Commuication Engineering, JNTUH-UCESTH, Hyderabad Expected 2024
CGPA: 8 Aggregate

MPC - Intermediate, Sri Nalanda Junior College, kothagudem 2018 - 2020
10th CGPA: 9.7/10
Aggregate IPE percentage: 96.60Secured **1252** in TS-Eamcet out of 1.4lakh+ candidates.
Secured **96.98** percentile in JEE Mains-2020

SKILLS

Technical Skills	Digital Logic design, Microcontroller and Microprocessor Programming Embedded Systems, Digital Signal Processing (DSP), VLSI Design Network Protocols,FPGA Programming
Languages	C, C++, Python (Programming essentials), Embedded C, Data Structures and Algorithms

EXPERIENCE

Hardware Engineer Internship January, 2024 - Ongoing
Honeywell Technology solutions lab *Bangalore, Karnataka*

- I have been testing WLAN for various test conditions such as secuirties, roaming and basic sanity tests for various devices.
- I have been allotted a project which is based on a Micro-controller with WiFi that is to be integrated with peripherals and a RFID reader.
- I have been learning regarding the working of printers.

Design Internship Feb 2023 - Mar 2023
Maven Silicon *Hyderabad, Telangana*

- Managed a process re-engineering project to improve and consolidate end-to-end service processes; restructured communication flow among 10 departments and cut down paperwork by 75
- During the Internship I have encountered following tasks:
 1. Learning about various devices.
 2. Functions of the devices as Master and Slave.
 3. Bridge connection for communication between devices.
 4. Various Testing conditions.
- Achieved more knowledge on the interfacing of devices using VERILOG.

FPGA Architecture Design Internship June 2023 - Ongoing
Pan Tech Solutions *Hyderabad, Telangana*

- I have been learining FPGA design using VHDL.
- Various tasks are been assigned in the intern that provide experience in various test conditions and logic design-ing.

- Further FPGA design using python and many more tasks will be assigned

Embedded System and IoT Intern

EmertXe

August 2023 - October 2023

Hyderabad, Telangana

- Coding of various devices using Embedded C.
- Interfacing of devices with Automation using C Language.

PROJECTS

Multi Channel MAC Protocol: A Multichannel Medium Access Control (MAC) Protocol enhances WSN performance by efficiently allocating and utilizing multiple communication channels. The simulation-based approach allows for testing and optimization of the protocol's parameters, leading to a deeper understanding of its behavior in different scenarios using **MATLAB** ([Try it here](#))

AHB to APB Bridge Design: The AHB to APB bridge is an AHB slave, providing an interface between the high speed AHB and the low-power APB. The project is implemented using VERILOG. ([Try it here](#))

Voting Machine using VERILOG A voting machine is being designed and implemented using verilog. The various modes and control switches are being instructed and controlled. Upon completion the tallying of votes is also done using the TALLY mode.

PWM using VERILOG: Designed and implemented a PWM (Pulse Width Modulation) controller using Verilog using XILINX VIVADO HLX. Developed logic for generating precise digital signals to control the duty cycle and frequency of the output waveform Demonstrated proficiency in Verilog coding, simulation, and synthesis on zedboard zynq 7000. ([Try it here](#))

Microwave Oven Simulator: The microwave Oven simulation is done using Embedded C language. The Microwave Oven is implemented using PIC microcontroller. Interfacing of CLCD, Buzzer, Fan with PIC microcontrollers. Various modes in microwave oven are being done.

Pattern Pursuit:

1. Learnt Arduino coding for joystick, LED, pushbutton.
2. Learnt of different inbuilt functions of Arduino.
3. Usage of a joystick with the directions and angles providing sensitivity to movement.

LEADERSHIP

- A student and member of **IEEE Student Chapter**.
- Crew foreman for **JHUB**.
- A scholar for **FOUNDATION FOR EXCELLENCE**.
- Team Leader for **AASYA FOUNDATION**. I have been a part of the organization for more than 2 years and I have been involved in various activities. These activities have helped me in honing my communicational skills, management skills and presentation skills.