

MOHAMMAD ABDUL AFROZ

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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

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:
 - Learning about various devices.
 - Functions of the devices as Master and Slave.
 - Bridge connection for communication between devices.
 - 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 learning FPGA design using VHDL.
- Various tasks are been assigned in the intern that provide experience in various test conditions and logic design-ing.
- Futher FPGA design using python and many more tasks will be assigned

Embedded System and IoT Intern August 2023 - October 2023
EmertXe 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. ([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.

Mini Audio Amplifier:

1. Built a Mini Audio Amplifier using simple elements.
2. A variable resistor attached act as a amplification factor determinant.
3. It works on basis of Kirchoff's Law.

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.

CERTIFICATIONS

Flipkart Grid 5.0 -Software Development Track

Certificate of Participant for entering into **Round 1.2**.

Coco-Cola Disrupt Season 3

Certificate of Participation by Coco-Cola.

Introduction to IoT

By CISCO NETWORKING ACADEMY.

02/2023

Digital Signal Processing

by COURSERA.

Jan 2023 - June 2023

Programming Essentials in Python

By CISCO NETWORKING ACADEMY.

Oct 2022 - Feb 2023