MO IJHAR

Faizabad, Ayodhya mohdijhar663@gmail.com +91 7800854123 ijhar-portfolio.com Linkedin
Github

INTRODUCTION

CV "I am an Electronics and Communication Engineering (ECE) student with a strong interest in Embedded Systems and VLSI design. I enjoy working on hardware-software integration and low-level programming. My goal is to build innovative and efficient electronic solutions using advanced technologies."

Education

Dr.Ram Manohar Lohia Avadh University, Faizabad *Sept 2021 – Aug 2025*
BTech in Electronics and Communication Engineering

- GPA: 8.0/10
- **Coursework:** Digital system design, VLSI, Microcontroller, Microprocessor, radar system, etc

S S M VMV Gram Bharti Pratosh Amethi *Apr 2019 – March 2020*
Mathematics

- GPA: 8.0/10
- **Coursework:** Math,Physics,Chemistry,English,Hindi

Experience

Surya Gujarat Intern *Gujarat*
AHA! Solar Ltd- Certification Link. *20 January 2023*

- Worked remotely on designing and simulating rooftop solar PV systems using software tools.
- Collected and analyzed solar data to evaluate system feasibility and efficiency.
- Supported the team in preparing technical documentation and reports for solar projects.
- Gained virtual exposure to the renewable energy industry and solar power project workflows.

Electrical infinite and telecommunication System Intern *Darshan Nagar,Ayodhya*
UPPTCL Certification Link. *29 July 2024*

- Observed the operation and maintenance of high-voltage transmission systems at UPPTCL.
- Gained insights into SCADA systems, grid control, and substation automation.
- Assisted in analyzing electrical schematics and telecom network layouts.
- Understood the integration of telecommunication systems in power transmission infrastructure.

Projects

Blind Stick

- Designed a smart stick using ultrasonic sensors and microcontroller (Arduino) for real-time obstacle detection.
- Incorporated RF communication to alert guardians remotely in case of emergency (optional feature).
- Integrated vibration motor and audio buzzer for multimodal feedback using signal conditioning circuits.
- Applied principles of embedded systems and wireless communication to improve mobility for the visually impaired.

Advance Electronic Voting Machine

- Designed a secure electronic voting machine using microcontroller (Arduino/8051) and digital logic circuits.
- Implemented keypad interfacing and LCD display for user-friendly input and result visualization.
- Used serial communication (UART) to transmit and store vote data in external memory securely.
- Applied embedded systems design, digital electronics, and signal processing for accuracy and tamper-proof

operation.

Technologies

Languages: C,Python,

Technologies:VHDL,FPGAVendor Toolchain,HDL,Forentend Devloper,Canva etc