

# Mohd Yasir

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## OBJECTIVE

Passionate Mechatronics Engineering student with strong fundamentals in IoT, Embedded Systems, and Automation. Eager to contribute to innovative projects integrating AI-driven and IoT-based systems to develop efficient, intelligent, and automated solutions.

## EDUCATION

**DSEU Okhla 2, Delhi**

Dec 2022 – Aug 2026

B.Tech in Mechatronics Engineering

**CGPA:** 8.6/ 10

*Core Modules: Digital Logic, Microprocessor & Microcontroller, PLC, Control System, Signal & System, Sensors & Actuators*

## TECHNICAL SKILLS

**Programming & Embedded:** Python, C, Arduino, ESP32, STEM32(basic), 8051, UART, SPI, I2C

**IoT & Automation:** PLC Programming, SCADA, MQTT, Blynk, ThingSpeak, RTOS.

**AI & Data:** OpenCV, Data Visualization, Computer Vision Basics

**Networking & Infrastructure:** TCP/IP, LAN/WAN, Virtualization (Basics), Modbus

**Tools:** MATLAB, KiCad, TinkerCad, Arduino IDE, VS Code, GitHub, MS Excel, Google Cloud (Beginner)

**Other Skills:** Documentation, Technical Presentation, Troubleshooting.

## PROJECTS

**Smart Automation and Monitoring System (ESP32, IoT )** – An IoT-enabled system using ESP32 to automate appliances and monitor conditions in real time, improving control, safety, and energy efficiency.

**Pedestrian Crossing System(ESP32, IoT )** – AAn IoT-enabled pedestrian crossing system using ESP32 that automates traffic signals for safer and efficient road crossing.

**Gesture Mouse & Scrolling Control (OpenCV, Python)** – A vision-based system using hand gestures via OpenCV to control cursor and scrolling for touch-free, intuitive computer interaction.

**Bluetooth Controlled Robot (Arduino, HC-05)** – A Bluetooth-controlled robot using Arduino and HC-05 for wireless movement and task automation.

**Light Automation (IR, ESP32, Arduino)** – Created a gesture-based lighting control system optimizing energy use.

**Automated Sorting Robo** – An automated robot designed to sort items efficiently using sensors and programmed logic.

## INTERNSHIP EXPERIENCE

**Embedded & IoT Intern – Mars Exploration PVT Ltd**

Nov 2025 - Present

Developing embedded prototypes using ESP32; integrating sensors and wireless communication modules for automation and data collection.

**Industrial Trainee – Delhi Transco Ltd (DTL)**

Jul 2024 - Aug 2024

Monitored real-time data via SCADA and SAP; assisted substation automation and communication between field, Server room and control centers.

**EV Technology Intern – IGDTUW (Mech. & Automation Dept.)**

Jun 2025 - Aug 2025

Analyzed Electric Vehicle systems focusing on the Battery Management System (BMS) and Motor Control Unit (MCU). Gained hands-on experience in performance testing, data analysis, and understanding EV powertrain efficiency.

## CERTIFICATIONS

- Python Course – Guvi & IITM
- AI for India – Fundamentals of AI

## KEY STRENGTHS

- Analytical Thinking • IoT Prototyping • Data Interpretation • Industrial Automation • Edge Device Configuration
- Networking Basics • Team Collaboration