

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