

# Faizan Ahmed Syed

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## Profile:

Undergraduate Computer Science Engineering student with hands-on experience in artificial intelligence, autonomous systems, robotics, and real-time autonomy through academic and independent projects. Actively involved in designing and implementing real-world systems, including autonomous robots, AI-driven security solutions, and intelligent perception models for research initiatives and advancements.

## Project Work:

### AUTONOMOUS DRONE SYSTEM | RESEARCH PROJECT | NOV-DEC 2025

Designed and developed an **autonomous drone system** integrating perception, control logic, ESP-flight controller, and sensor-based decision making. Implemented **computer-vision** to assist navigation focusing on **autonomy, reliability, and modular design**, enabling future upgraded algorithms.

### AI FIREFIGHTING ROVER | RESEARCH PROJECT | JAN 2026

Built an **AI-Driven autonomous firefighting rover** capable of detecting fires, navigating towards it, and executing suppression actions. Integrated **computer vision-based detection** with ultrasonic and IR sensor data for localization. Worked extensively with **ESP32, sensors, actuators, motion control logic, actuation logic, and embedded software**, emphasizing real-world deployment constraints.

### AI-BASED SELF-HEALING CYBERSECURITY SYSTEM | NTCC RESEARCH | MAY-JUNE 2025

Design and implementation of an **AI-driven self-healing system** for automated intrusion detection/response. Developed **machine learning pipelines** using datasets such as **NSL-KDD, CIC-IDS2017, and UNSW-NB15** for attack and anomaly detection using **Random and Isolation Forest**.

### TRAINEE ENGINEER | STRONG HAND CO. | JEDDAH, SAUDI ARABIA | MAY-JUNE 2023

- Contributed services to the Strong Hand Contracting Co. Jeddah Saudi Arabia as a trainee under the supervision of the consultant and lab specialist for the gas distribution system of the SOS Lab at Zahid Business Park.

## Education:

### AMITY UNIVERSITY – NOIDA, INDIA (2023 – 2027 ON-GOING)

Bachelor of Technology: Computer Science and Engineering

Current CGPA: 8.63 (cumulative GPA up to 5<sup>th</sup> semester)

Research Publications: Book chapter on AI for vision perception (under-review 2026); Conference paper on AI based Self-Healing Cybersecurity Framework (under-review 2026)

### AL-WAHA INT'L SCHOOL – JEDDAH, SAUDI ARABIA (2017-2023)

As & A Level: Mathematics, Physics, and Chemistry.

## Skills & Abilities:

- AI & ML Learning System Dev.
- Applied Research & Technical Problem Solving
- Programming – C/C++, Java, Python, Arduino
- English Proficiency: C1 (IELTS - 7.5)
- Real-Time Autonomous Systems
- Autonomous Systems & Robotics Integration
- CAD Design & Technical Engineering Drafting
- Arabic Proficiency: B1 (High School Grade A+)