

ADITYA SINGH

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Lucknow, U.P - 226028, India



OBJECTIVE

Seeking a challenging position in your company to leverage my expertise and contribute to innovative projects, particularly at the intersection of IoT and software development. I aim to apply my practical problem-solving skills and technical knowledge to drive impactful solutions in a dynamic and growth-oriented environment.

EDUCATION

- **Babu Banarasi Das Institute of Technology and Management** 2021 - 2025
B.Tech (Electronics and Communication Engineering) Lucknow, India
◦ SGPA: 7.55
- **Vidya vahini** 2021
Intermediate - 12th Prayagraj, India
◦ Grade: 70.0%
- **Central Public School** 2019
High School - 10th Zamania, India
◦ Grade: 82.2%

PROJECTS

- **Project A: [IR Based Proximity Sensor]** Jan 2023
Tools: [IR Sensor]
 - Developed an IR-based proximity sensor using infrared rays to detect distance
 - Implemented threshold detection to trigger alarm when a specific distance threshold is reached
 - Threshold distance for the IR Sensor is 5cm
- **Project B: [Automated Car Parking System]** Oct 2023
Tools: [Arduino Uno, Embedded C Programming]
 - Designed and implemented an automated car parking system using Ultrasonic sensors and Arduino Uno
 - Developed software logic to efficiently manage parking spaces and vehicle detection
 - Developed Embedded C program for easy integration with Arduino Uno
- **Project C: [Egg Quality Grading (Open CV)]** Aug 2024
Tools: [Roboflow, Python]
 - Developed an Egg quality grading system using object detection techniques with OpenCV and Roboflow
 - Implemented Object detection, processing 589 images
 - Selected and annotated images of eggs to categorize them into different quality grades
 - Trained a model to accurately identify and classify eggs based on visual features

SKILLS

- **Programming Languages:** Python, MATLAB
- **Microcontroller Development:** Arduino Uno
- **Data Structure and Algorithms (DSA):** Python
- **Tools & Libraries:** NumPy, Pandas, Matplotlib, Seaborn
- **Technical Skills:** IR and Ultrasonic sensor integration
- **Version Control:** Git, GitHub

PROFESSIONAL MEMBERSHIPS

- **IPR Coordinator at Institute for Electronics & Telecommunication Engineers, Mem. No.: 297200 Valid upto - 2026**

CERTIFICATIONS

- **Elite certificate from NPTEL for completing course Introduction to Internet of Things: [Certification](#)** April 2023
- **Google certificate for completing course Get Started with Python: [Certification](#)** Feb 2024

ADDITIONAL INFORMATION

Languages: Hindi, English

Interests: Listening Music, Playing Cricket