ADITYA SINGH

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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: 7.64
- **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 detecct 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 detecction
  ◦ 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 techniquea 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
- **Technical Skills:** IR and Ultrasonic sensor integration
- **Version Control:** Git

Professional Memberships

- **Institute for Electronics & Telecommunication Engineers [IETE]**, Ref. No: IFSC-1008 *Valid upto - 2026*

Certifications

- **Elite certificate from NPTEL for completing course Introduction to Internet of Thing:** 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