AMMAAR AHMAD KHAN

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Education

Bachelor of Technology - Computer Science and Engineering
Integral University, Lucknow (IUL)
1st Year: CGPA: 8.4/10

Higher Secondary School
International Indian School, Jeddah (IISJ)
CBSE Boards Exam 12th Percentage: 73.4%

Secondary School
National Institute of Open Schooling (NIOS)
10th Board Exam Result: 77.8%

Skills

- **Programming Languages:** Python (Libraries for Data Science & Data Visualization), SQL (connectivity with Python), C (Data Structures & Algorithms)

- Proficient in audio editing using **Audacity** and video production with **Canva**

- Skilled in creating clear and concise **presentations** to enhance learning and comprehension

Experience

Student Intern, Integral Robotics Lab

- Designed and built robotic systems, integrating sensors, motors, and controllers.

- Troubleshooted mechanical and software issues in hardware integration.

- Optimized system performance using MATLAB/Simulink simulations.

- Collaborated with a team to deliver projects from concept to deployment, managing timelines and resources.

Projects

Design and Development of Spherical Robot

- Engineered a mobile spherical robot with omnidirectional movement and pendulum-based stabilization.

- Integrated advanced sensor technologies (360-degree camera, ultrasonic sensors) for real-time perception and navigation.

- Optimized robot control systems using MATLAB/Simulink to achieve precise and stable motion.

- Implemented hardware solutions (NodeMCU, ESP32-CAM, DC motors) for energy-efficient and reliable operation.

- Utilized Fritzing to create detailed circuit diagrams for efficient assembly and troubleshooting.