



ASHISH RANJAN

ROBOTICS ENGINEER

PROFILE

I am currently pursuing a B.Tech in Mechanical Engineering at the National Institute of Technology (NIT) Hamirpur. As an active member of the Robotics Society at NIT Hamirpur, I have developed a diverse skill set that includes proficiency in Python, AI-ML, and 3D Designing using SolidWorks. I am well-versed in ROS and ROS2 for robotic system development and have hands-on experience with hardware integration. Additionally, I have a foundational understanding of Cybersecurity and Ethical Hacking. My expertise and involvement in robotics projects underscore my commitment to advancing in the field of mechanical and robotics engineering.

TECHNICAL SKILLS

Python

2030 - PRESENT

- Proficient in Python programming language, known for its versatility and ease of use. Experienced in developing applications, scripts, and algorithms for various purposes, from web development to data analysis and automation.

3D Designing (CAD) - SolidWorks

- Skilled in Computer-Aided Design (CAD) software, particularly SolidWorks, for creating detailed 3D models and assemblies. Proficient in designing mechanical parts, assemblies, and simulations for engineering projects.

Cybersecurity & Ethical Hacking (Beginner)

- Introduction to cybersecurity principles, practices, and tools, with a focus on ethical hacking. Familiarity with common security threats and vulnerabilities, and basic techniques for penetration testing and securing networks and systems.

ROS & ROS2

- Knowledgeable in Robot Operating System (ROS) and ROS2, frameworks for developing robotic systems. Capable of designing, simulating, and programming robotic applications for navigation, manipulation, and perception tasks.

Hardware

- Competent in hardware development and integration, including microcontrollers, sensors, actuators, and communication protocols. Experienced in designing and prototyping electronic circuits and systems for embedded applications.

Video Editing

- Proficient in video editing software, capable of creating and editing engaging video content. Skilled in tasks such as cutting, trimming, adding effects, transitions, and audio synchronization to produce professional-quality videos.

CONTACT

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<https://ashishnith.github.io/MyWebsite>

EDUCATION

2010-2020

THE CHANDRASHEEL SCHOOL

- Primary, Secondary and Higher secondary education

2023-2027

NIT HAMIRPUR

- BTech - Mech. Engineering

SKILLS

- Project Management
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English
- Hindi