

Naman Sharma

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🔗 Portfolio: <https://naman2328.github.io/naman-robotics-vision-portfolio/>

Career Objective

Aspiring **Robotics and AI Engineer** with strong hands-on experience in **ROS, Computer Vision, OCR, and industrial robotics**, seeking opportunities to contribute to **automation, intelligent inspection systems, and autonomous robotic solutions** in a growth-oriented engineering environment.

Technical Skills

Programming & AI: Python, OpenCV, ROS 2

AI / CV: Image Processing, Computer Vision, OCR, SLAM

Hardware & Tools: NVIDIA Jetson Orin Nano, Arduino, Raspberry Pi, MATLAB (Basics) **Robotics Platforms:** Dobot Magician, TurtleBot3

Internship Experience

Autoliv India Pvt. Ltd. — *Maintenance Intern*

Feb 2025 – Feb 2026

- Worked in an automotive manufacturing environment following **TPM, CLIT, DDP, PM, PMI, and OPM** practices.
 - Collaborated with the **Process Engineering Department (PED)** on **thread defect detection in steering wheels**.
 - Developed a **real-time GUI-based OK/NG validation system** for industrial inspection use cases.
 - Gained hands-on exposure to **industrial automation, quality inspection systems, and robotics-based manufacturing**.
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Projects

Industrial OCR Inspection System

- Designed and deployed an **offline OCR pipeline** on **NVIDIA Jetson Orin Nano** for factory label inspection.
- Implemented image preprocessing and real-time inference optimized for **GPU-based execution**.
- Built a **GUI-based OK/NG classification system** suitable for shop-floor usage.

Omnidirectional Mobile Robot

- Designed and programmed a **mecanum-wheel omnidirectional robot** for smooth multi-directional motion.
- Implemented motor control and kinematic logic for precise navigation on uneven surfaces.

Robotic Arm with Computer Vision

- Developed **computer vision algorithms in Python** for object detection and robotic manipulation.
- Integrated camera feedback with robotic actuation for **semi-autonomous operations**.

Robotics Platforms Experience

- Hands-on experience with Dobot Magician and TurtleBot3 using ROS for robotic manipulation, navigation, and SLAM.
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Education

B.E. Mechatronics Engineering — Chitkara University (2022 – 2026) CGPA: **6.77 / 10** (up to 6th semester)

12th (CBSE) — Govt. Model Sr. Sec. School, Chandigarh | **60%** (2022)

10th (CBSE) — Vivek High School | **72%** (2020)

Achievements & Activities

- Represented **Chitkara University at ARAI Technovuus**, pitching an idea on **autonomous vehicles**. • Actively worked on **robotics projects and competitions** for 2+ years using **Python and ROS**.
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Languages

English | Hindi | Punjabi