

# Naman Sharma

Mohali, Punjab

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## 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.

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## 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

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## 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)

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## Achievements & Activities

- Represented Chitkara University at **ARAI Technovus**, 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