

# Naman Sharma

Mohali, Punjab

✉ naman4279.be22@chitkara.edu.in | ☎ 8437888862

🔗 LinkedIn: <https://www.linkedin.com/in/naman-sharma-8a12ab275>

---

## 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**.
- 

## 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.

---

## 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**.

---

## Languages

English | Hindi | Punjabi