

Shivam Bhardwaj

SENIOR AI-AUGMENTED ROBOTICS & AUTOMATION ENGINEER

PROFESSIONAL SUMMARY

6+ years bridging **Mechanical Design** (Siemens NX), **Software** (Python/ROS/C++), and **Operations**. Specialist in **AI-Accelerated Engineering**—leveraging LLMs and modern AI stacks to rapidly deploy full-stack automation tools, reducing development cycles from weeks to days. Proven track record delivering critical hardware for **Meta, Applied Materials, Amazon Robotics, and Saildrone**.

EXPERIENCE

- Engineering Manager** , Advanced Engineering Services Sep 2022 – Mar 2023
Clients: Meta (Facebook) & Applied Materials
- Mechatronics Engineer** , Design Visionaries Mar 2023 – Present
Clients: Applied Materials, Saildrone, Industrial IoT
- Robotics Software Engineer** , Monogram Orthopedics (ARI) Jan 2020 – Dec 2020
- Senior Robotics Engineer** , Velodyne Lidar Jan 2021 – Sep 2022
R&D Software Team Lead

CONTACT

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H-1B Transfer Ready

EXPERTISE

AI & Robotics

- C++ Rust Python ROS/ROS2
- LLM Integration CV (OpenCV)
- YOLO

Hardware/CAD

- Siemens NX (Open API) SolidWorks
- Rhino3D GD&T Prototyping

Automation

- Industrial IoT PLC (Beckhoff)
- LabView Sensor Fusion

Process/Tools

- 5S Methodology ERP Integration
- Git Jira Wiring/Harnessing

EDUCATION

M.S. Mechatronics & Robotics

New York University
Research: AI4CE Lab – Real-time visual localization using Deep Learning (SLAM without GPS)

B.Tech Electronics

I.P. University, Delhi
Award: Top 3 University Projects – Developed ArduPilot-based Autonomous Drone