Shivam Bhardwaj

FOUNDER & ROBOTICS ARCHITECT | BUILDING AI-NATIVE HARDWARE SYSTEMS

PROFESSIONAL SUMMARY

Visionary Engineer & Founder with 6+ years architecting zero-to-one automation for **Meta, Applied Materials, and Saildrone**. Specialist in collapsing development cycles (100x speedups) via custom **AI-driven CAD & Manufacturing engines**. Now building the next generation of **autonomous industrial robotics**.

EXPERIENCE

Engineering Lead , Advanced Engineering Services   Sep 2022 – Mar 2023
Led cross-functional teams for Meta & Applied Materials

Founder & Lead Engineer , Design Visionaries   Mar 2023 – Present
Consulting for Applied Materials, Saildrone, Industrial Clients

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

San Jose, CA

929-289-4539

curious.antimony@gmail.com

shivambhardwaj.com

LinkedIn/shivambdj

GitHub/shivam-bhardwaj

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