Shivam Sharma

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WORK EXPERIENCE

ANALOG DEVICES INC., *Mechatronics engineer*   Jan 2025 - Present

Automated semiconductor fab by using advance computer vision and critical decision making. Applied object detection, recongition and pose estimation to increase the FAB throughput. Built vision pipeline to process image and accurately move robot for pick and place,

IPAWTROL, *Computer Vision Engineer*   May 2024 - Aug 2024

Calibrated intrinsic and extrinsic camera parameters for stereo and an IMU sensor on quadruped. Developed CUDA accelerated high throughput ROS 2 driver for stereo camera. Implemented visual SLAM and obstacles avoidance for quadruped for home security

DANFOSS INFO SOLUTIONS, *Robotics Engineer*   May 2023 - July 2023

Designed advanced path planning algorithm for autonomous vehicle. Optimized path length and speed using path planner leading to 45 % reduction in path curvature. Devised multithreaded obstacle avoidance software utilizing lidar data, achieving a 40% increase in memory efficiency.

EDUCATION

MSC. ROBOTICS ENGINEERING   August 2021 - December 2023

Worcester Polytechnic Institute

Learned and excelled in Computer vision, Robot control, Motion planning and On-device deep learning. Designed complex team based projects for each course that automated industry tasks and develop teamwork skills.

B.TECH MECHANICAL ENGINEERING   July 2017 - July 2021

National institute of technology, Kurukshetra

Learned fluid mechanics, thermodynamics, strength of materials, CAD, machine design, and computer and Matlab programming. Completed internship at Maruti Suzuki for supply chain management as final year project.

Class X & XII – CBSE   2014, 2016

Kendriya Vidhyalaya   Class X: CGPA 9.6/10 | Class XII: 92%

SKILLS & INTERESTS

Languages

Hindi	Native
English	Professional

Technical Skills

Python	Computer vision, automation, ROS 2
C++	High-performance robotics software
ROS 2	Drivers, perception pipelines, SLAM
OpenCV/PyTorch	Detection, pose estimation, calibration

Interests

Tennis	Competitive play, endurance training
Fitness	Strength training, conditioning
Robotics	Autonomous systems, vision based hand manipulation