

Sohan Lele

sohanlele.github.io/Portfolio | [linkedin.com/in/sohanlele](https://www.linkedin.com/in/sohanlele)

EDUCATION

University of Pennsylvania (GRASP Lab) <i>MSE in Robotics</i>	Aug. 2025 – May 2027 Philadelphia, PA
University of California, San Diego <i>BS in Mechanical Engineering, Specialization in Robotics and Controls</i>	Sep. 2021 – Jun. 2025 La Jolla, CA

EXPERIENCE

IRIX tryirix.com <i>Co-Founder & CEO Product Management, Wearable Software Systems</i>	Jan. 2026 – Present Remote
<ul style="list-style-type: none">– Leading end-to-end product development of a smart-glasses-based software platform delivering real-time, hands-free personal training– Defined product requirements, system architecture, and feature roadmaps across wearable software, audio interfaces, and context-aware interaction– Designed wearable-first UX optimized for voice, audio, and heads-up displays under latency, power, and usability constraints– Coordinating pilots with hardware partners and gym operators to validate deployment feasibility, reliability, and user experience	
Eversun Energy Inc. <i>Mechanical Engineering Intern Prototyping, Mechanical Design, Ergonomics, Fabrication</i>	Jul. 2024 – Sept. 2024 San Diego, CA

PROJECTS

Steerable Needle Position Estimation — Multi-View Computer Vision (UPenn) <i>Perception Systems Project Medical Robotics, Computer Vision</i>	Aug. 2025 – Dec. 2025 Philadelphia, PA
<ul style="list-style-type: none">– Designed a multi-view perception pipeline to estimate the 3D tip position of a steerable needle navigating a reflective gel medium– Integrated segmentation models with classical vision techniques including skeletonization, endpoint detection, and multi-view correspondence– Reconstructed continuous 3D trajectories from synchronized camera views and validated against a deformation model with ~7% relative error– Identified and mitigated failure modes related to glare artifacts, skeleton branching, and frame synchronization	
Ambient AI Clinical Documentation — Human Systems Engineering (UPenn) <i>Systems Design Project AI Systems, Healthcare, Human Factors</i>	Aug. 2025 – Dec. 2025 Philadelphia, PA

SKILLS

Robotics & Perception: Computer Vision Pipelines, Multi-View Geometry, Sensor Integration, ROS
Mechanical Design & CAD: Fusion 360, SolidWorks, AutoCAD, Rhino 7, ANSYS
Prototyping & Fabrication: 3D Printing, CNC Machining, Laser Cutting, Machine Shop Tools
Programming: Python, MATLAB, Git