Evan Dorsky

#### Work

# Perceptive Systems Software Engineer

Designed and built initial software and compute systems for early-stage autonomy sensor hardware startup (employee #6). Helped build the software team and set best practices + norms. Owned multiple cross-functional systems engineering projects simultaneously:

- Built the entire sensor driver system with Robot Operating System (ROS), enabling real-time high bandwidth (> 20 Gb/s) multi-modal data capture, processing, and visualization.
- Designed and built sensor fusion systems leveraging off-the-shelf machine learning models processing data in 3D from multiple cameras, lidar, radar, IMU – to enable key product features.
- Designed a robust compute platform to meet real time sensor system demands for I/O and processing capability within tight time, cost, size, and power constraints.

### Apple Sensor Hardware Integration Engineer

Coordinated teams including software, algorithms, sensor module, and manufacturing to drive the build, design verification, characterization, and integration of next-generation depth sensor systems for autonomous systems.

- Built relationships and organizational knowledge to effectively coordinate efforts across many teams with different knowledge centers and competing requirements.
- Designed and commissioned (in-factory) sensor calibration stations on cross-functional teams. Proved out and implemented novel techniques, delivering high precision and repeatability.
- Triaged and debugged sensor system failures and contributed to development of the systemwide fault reporting and management strategy.
- Wrote widely-used software tools automating common sensor interface operations.
- Designed circuit boards for sensor support systems.

Teaching and Study -

#### Ethics in Technology Seminar Teaching Team Member

Designed and lead seminar/discussion series for the Olin community. Facilitated group Q&A with speakers from industry and academia. Threads of inquiry included critiquing the narrative of inevitability in technological development, the ethic and values inherent in designed artifacts, whether self-regulation by industry is possible (or desirable), and how to approach ethical concerns that arise in the workplace while staying true to your values.

Education ·

## Olin College B.S. in Electrical and Computer Engineering

**Capstone** Conducted market research and product concept + design for Ivani, an IoT startup. Patent: **US10072942B2 Electrical monitoring and network enabled electrical faceplate** 

Skills and Experience

- Python, C, C++, Robot Operating System (ROS)
- ML, GPU programming (CUDA)
- Computer vision (OpenCV)
- 3D printed parts design and printer operation
- Full-stack web (Flask, SQL, HTML, CSS, JS)
- NVIDIA Jetson, NVIDIA DRIVE
- Linux sockets, TCP/IP, 10GBASE-T Ethernet
- PCB schematic capture and layout (Cadence)

2016-2019

2019-2021

2022-2023

2016