Contact

www.linkedin.com/in/scott-sun (LinkedIn)

Top Skills

Python
C
Circuit Design

Languages

English (Native or Bilingual)
Mandarin Chinese (Native or Bilingual)

Honors-Awards

Harvard College Scholar
Phi Beta Kappa Inductee
Dean's Award for Outstanding Thesis
Colonel and Mrs. S.S. Dennis III Scholarship

Scott Sun

Machine Learning Engineer at Amazon
San Francisco Bay Area

Experience

Amazon
Machine Learning Engineer
September 2020 - Present (2 years 8 months)
San Francisco Bay Area

Carnegie Mellon University School of Computer Science
Graduate Researcher
September 2018 - August 2020 (2 years)
Greater Pittsburgh Area

Developed time-series deep learning models in Pytorch for localization using inertial measurement units (IMUs). Designed imitation learning approach for full-body human pose estimation from joint-mounted IMUs while incorporating physics-based constraints from MuJoCo. Advised by Professor Kris Kitani.

Boltzmann
Hardware Engineering Intern
June 2018 - September 2018 (4 months)
San Francisco Bay Area

Designed embedded hardware security module for securing transactions.

Harvard John A. Paulson School of Engineering and Applied Sciences
2 years

Undergraduate Researcher
June 2016 - May 2018 (2 years)
Cambridge, MA

Researched efficient power delivery to piezoelectric and dielectric elastomer actuators. Advised by Professor Gu-Yeon Wei.
• Developed miniature 0-500V driver circuit with reverse energy recovery capabilities that can be powered off a single-cell lithium-polymer battery.
• Designed PCB's with Altium Designer for custom voltage amplifier ASIC, performed device characterizations, wrote embedded SPI drivers using TI C2000 microcontrollers for real-time waveform generation.

Teaching Fellow for Feedback Control Systems (ES 158)
September 2017 - December 2017 (4 months)
Cambridge, MA

Graded homework, ran lab sections, and held office hours for students in control theory.

SpaceX
Avionics Intern
May 2017 - August 2017 (4 months)
Greater Los Angeles Area

Worked on the free-space laser communications terminal for the planned Starlink satellite internet constellation.

Harvard Undergraduate Robotics Club
Co-President
September 2016 - May 2017 (9 months)
Cambridge, MA

• Coordinated growth of club from 3 projects with 20 members to 6 competition teams with over 80 members. We are now the largest project-based engineering organization on campus.
• Overseeing progress and assisting project teams with designing and fabricating robots.

Website: www.harvardrobotics.com.

Education

Carnegie Mellon University
Master of Science - MS, Robotics · (2018 - 2020)

Harvard University
Bachelor of Science - SB, Highest Honors in Electrical Engineering · (2014 - 2018)

Mesquite High School
High School · (2010 - 2014)