ADAM WELD

3100 E. Laurelhurst Dr. NE, Seattle WA, 98105 | 206.617.6613 | linkedin.com/in/adamweld | adam.weld@gmail.com

OBJECTIVE

Electrical

Seeking an internship in research and development on a challenging multidisciplinary project. Most interested in robotics, artificial intelligence, machine learning, and computer vision.

Mechanical

EDUCATION - Cornell University

Intended BS + MEng in the department of Electrical Computer Engineering - 2019

Robotics

0 00 0	Schematic design simulation, valida PCB layout and re Digital and analo communications Microcontrollers embedded system	atioi outi g RF and	n 🛄 ng : 👊	SolidWorks modeling Materials properties, selection and testing Design for manufacturing Stress, strain and displacement simulation Dynamics and statics	0	Programming in MATLAB, Java, BASH, Assembly System design and subsystem integration Robotic manipulators, sensors, and drive PID control algorithms	000000	Rapid Prototyping Laser cutting CNC milling/waterjet 3D printing Injection molding Precision soldering SMD hot-air reflow
PR	OFESSIONAL EXP	PER	ENCE					
HoverBot.io 10.2016 - Present Seattle, WA		0	Achieved best in class flight characteristics and lightest weight for a brushless motor multirotor with fully guarded propellers. (30 grams all-up-weight)					
Founder and CEO								
Amazon Prime Air 05.2017 - 09.2017 Seattle, WA Hardware Design Internship		000 0 0	Took ownership of flight critical sensor subsystem and researched dozens of white papers. Worked with team members and leadership to identify areas needing improved performance. Created test plans, physical rig and fixturing, and scripting to document the precision and accuracy of numerous possible replacement sensors and characterize their behavior. Designed a densely populated six-layer printed circuit board in Altium from schematic to layout using integrated ECAD/MCAD techniques, and performed board bring-up and testing. Engineered and manufactured a CNC machined weather-sealed enclosure for subsystem.					
0	Vantage Robotics 05.2016 - 08.2016 SF Bay Area, CA Hardware Design Internship		Fabricated debugging, manufacturing, and assembly jigs for production with CM. Designed and tested interconnect circuit board with SMD components. Created three-axis ball bearing test stand with .01 degree repeatability to calibrate camera firmware and digital image stabilization algorithm. Prototyped WiFi repeater handset and implemented video pass through functionality.					
0	oject Voxa 5.2015 - 09.2015 eattle, WA □		Designed electromechanical positioning subsystem for an electron microscope, from conceptualization to the fabrication of a working production prototype. Gained experience in vacuum systems and cleaning procedures and materials selection.					
	rdware Design ernship	0	Designed	and simulated precision flexure assembly for EDM machining out of Titanium. I, built, and tested custom nanoscale piezoelectric linear actuators and prototyped four-axis linear motion system.				
University of Washington 04.2013 - 03.2014 Seattle, WA Robotics and State Estimation Research Assisted in the creation of a mobile Robotic Assistant for the Visually Imp Performed component selection, wrote software, and handled subsystem sensor placement, and connecting structure architecture. Accomplished fabrication and assembly of much of the robot's hardware. Researched and helped implement (in ROS) visual object recognition, sen knowledge system and natural language processing programs. Incorporated real time video, RGBD cameras, and laser scanning technological and controls structure.						tem are. sem	CAD design work,	

PROJECTS AND CLUBS

Manufacturing