ADAM WELD

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OBJECTIVE - Seeking a full time position in R&D working on challenging multidisciplinary projects. I thrive on fast iteration and outside-of-the-box thinking. Most interested in areas that synthesize of one or more of electronics, mechatronics, embedded systems, machine learning, and computer vision, and motion control.

EDUCATION				Cornell University B.S. in Electrical and Computer Engineering - May 2019					
0 00 00	lectrical Schematic design and simulation, validation PCB layout and routing Digital and analog RF communications Embedded firmware USB, SPI, I ² C Interfaces PCBA bringup and testing			0 0 0	SolidWorks modeling Materials properties, selection and testing Design for manufacture Parametric design Statics and Dynamics Ansys FEA simulation Precision Tolerancing	0 0	Programming in C, C++, Python, MATLAB, BASH High Level design and subsystem integration Actuators, manipulators, sensors, and drivetrain Controls algorithms System model simulation	0000000	Anufacturing Supply Chain Logistics On-site CM/OEM work CNC milling/waterjet Rapid Prototyping 3D Print / Laser Cut Injection molding Precision soldering SMD reflow/rework
PR	OFESSIONAL EX	(PEI	RIENC	Έ					
HoverBot.io 10.2016 - 09.2019 Seattle, WA Founder and CEO			Launched drone company with industry-leading performance in ultralight racing market. Lead Research and Development on custom BLDC motors, Carbon Fiber Exoskeleton design, STM32-based flight control electronics, LIDAR subsystem, flight testing and qualification. Achieved best-in-class noise performance, durability, safety, wind resistance, size and weight. Coordinated manufacturing logistics, distribution, marketing, and customer support.						
Amazon Prime Air 05.2017 - 09.2017 Seattle, WA Hardware Design Internship		0000	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.						
Vantage Robotics 05.2016 - 08.2016 SF Bay Area, CA Hardware Design Internship		000 00	Designed and tested PCB with FTDI and pogo-pin interface for debugging and development. Fabricated programming, manufacturing, and assembly jigs for production with CM / OEM. Created three-axis ball bearing test stand with .01 degree repeatability to calibrate camera firmware and digital image stabilization algorithm. Redesigned components for manufacturability and cost reduction. Prototyped WiFi repeater handset and implemented video pass through functionality.						
Project Voxa 05.2015 - 09.2015 Seattle, WA Hardware Design Internship			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. Modeled and simulated precision flexure assembly for EDM machining out of Titanium. Designed, built, and tested custom nanoscale piezoelectric linear actuators and prototyped precision four-axis linear motion positioning system.						
University of Washington 04.2013 - 03.2014 Seattle, WA		000	Assisted in the creation of a mobile Robotic Assistant for the Visually Impaired Performed component selection, wrote software, and handled subsystem CAD design work, sensor placement, and connecting structure architecture. Researched and helped implement (in ROS) visual object recognition, semantic world knowledge system and natural language processing programs. Incorporated real time video, RGBD cameras, and laser scanning technologies into feedback						
Robotics and State									

MANAGEMENT EXPERIENCE

Estimation Research

and controls structure.