MARTIN HERRERA

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY — Cumulative GPA 3.86
Masters of Engineering in Mechanical Engineering, Specializing in Robotics and Controls — Dec 2017
Bachelors of Science in Mechanical and Aerospace Engineering — May 2017

EXPERIENCE

Cornell Autonomous Systems Lab, Ithaca, NY — June – Aug. 2017
Robot Swarm Research Assistant

- Programmed IoT solution using Python and ROS to wirelessly control robot swarms
- Created custom software package to integrate ROS and non-ROS systems for swarm communication
- Scaled number of controllable Bluetooth enabled robots in a swarm from 3 to 12
- Designed and manufactured a custom chassis for localization of robots, using Solidworks and rapid prototyping

Cornell Design Build Fly Engineering Project Team, Ithaca, NY — Sept. 2013 – May 2017
Team Leader

- Lead the design and construction of interscholastic competition aircraft with a focus on rapid prototyping and iterative design
- Produced CAD drawings of aircraft features from provided specifications
- Integrated design features through effective team communication
- Lead composite manufacturing and research endeavors
- Wrote a final technical report on the selection and optimization of features as well as their production

Shaper Tools, San Francisco, CA — June – Aug. 2016
Kessler Fellowship Hardware Intern

- Selected as one of fourteen engineers to be fully funded by Cornell University to pursue an immersive entrepreneurial experience through the Kessler Fellowship
- Designed and built a life cycle testing apparatus for supplier selection of power tool routers
- Developed technical specifications for power tool routers to be used in a commercial product
- Characterized and validated power tool router specifications through testing
- Reviewed patent documents and office actions

Lockheed Martin, Missiles and Fire Control, Orlando, FL — June – Aug. 2015
Global Supply Chain Summer Intern

- Managed the development of a comprehensive supplier reference tool to aid the spread of supply chain information to a wide range of users
- Presented reference tool at several pitches and held feedback forums

SKILLS

CAD	Solidworks, Autodesk Fusion 360
Design	Experience designing for manufacturing of laser cut, 3D printed, and machined parts
Programming	MATLAB, Python, Java, C, ROS, Javascript, HTML
Electrical	Arduino, Raspberry Pi, Comfortable with electronics lab equipment