

# MARTIN HERRERA

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## EDUCATION

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<b>Cornell University, College of Engineering</b> , 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

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## EXPERIENCE

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**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

**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

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