

# Oron Rosenberg

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## Education

### The Pennsylvania State University

Major: Bachelor of Science in Aerospace Engineering

Minors: Engineering Leadership, Information Sciences and Technology for Aerospace Engineers

Honors: Dean's List 2015 & 2017, Award for Engineering Leadership

### Johns Hopkins University

Major: Masters of Science in Space Systems Engineering

Overall GPA: 4.0/4.0

**Certifications: Lean Six Sigma Yellow Belt**

## Engineering Experience

### Millennium Space Systems, a Boeing Company

Spacecraft Electrical Systems Engineer

- Designed, manufactured, and tested EGSE/Flight harnessing for multiple programs
- Responsible Engineer for all harness testing and harness processes at Millennium
- Responsible Engineer for heaters and EGSE harnessing for Millennium's first large spacecraft TVAC test
- Engineering/process Subject Matter Expert for the implementation of a new Enterprise Resource Planning suite
- Currently performing and managing a battery-related Internal R&D program
- Lead Coordinator and Founder of Millennium's Volunteering and Community Outreach team

### Millennium Space Systems, a Boeing Company

Spacecraft Assembly, Test, and Launch Operations Engineer

- Created test procedures in pursuit of spacecraft integration and testing goals
- Developed ground test software displays to streamline spacecraft testing processes
- Hands-on integration experience with multiple satellite programs
- Direct experience at all levels of spacecraft integration, from testbed to shipment

### Lockheed Martin Advanced Technology Center

Research Engineering Intern

- Analyzed data and performed error analysis for Geostationary Lightning Mapper on NOAA's GOES-16 satellite
- Presented accomplishments findings to NASA MRB
- Performed initial set-up for a cryogenic optics research lab

### Lockheed Martin Advanced Programs

Advanced Programs Conceptual Design Intern

- Utilized Systems Tool Kit in the conceptual design of a current military multi-platform satellite constellation bid
- Performed trade studies to determine constellation orbital parameters and other elements
- Presented accomplishments and results of constellation concept to multiple sites across the country

### SSL (Space Systems/Loral)

Communications Vehicle Engineer Intern

- Introduced a completely new testing system that drastically reduced and simplified time spent on spacecraft
- Successfully led a group of senior RF technicians in the testing and integration of various satellites

## University Experience

### Lion Tech Rocket Labs

Autonomous Payload Lead, Payload and Structures subsystems

- Introduced concept and design of a rocket-deployed rover to perform tasks for NASA USLI
- Personally developed a rocket-deployed gyrocopter and the concept for its guidance system for NASA USLI
- Designed a shock absorbing system to safely launch and recover an unknown fragile object for NASA USLI

### Low Temperature Plasmas

Independent Undergraduate Researcher

- Modeled and improved the heat transfer properties of coronal wind by varying electrical and thermal conditions
- Coordinated with separate graduate research team to miniaturize and commercialize coronal wind creation

University Park, PA  
Class of May 2018

Baltimore, MD  
Class of May 2021

El Segundo, CA  
February 2019 – Present

El Segundo, CA  
June 2018 – February 2019

Palo Alto, CA  
Summer 2017

Sunnyvale, CA  
Summer 2017

Palo Alto, CA  
Summer 2016

University Park, PA  
Spring 2015-Spring 2018

University Park, PA  
Spring 2016- Spring 2018

AIAA Spacecraft Senior Design Project

University Park, PA

*Team Leader*

Fall 2017- Spring 2018

- Initialized concept of using autonomous CubeSat-based rover swarms to reduce cost and mission time
- Developed overall architecture, concept of operations, and initial rover mockup

Invention Commercialization

University Park, PA

*Team Leader, Propeller Sound Modification Team*

Spring 2018

- Worked to commercialize propeller sound dampening technology produced by a private company
- Ran trade studies to develop applications for sound dampening technology

Aerospace Software Team

University Park, PA

*Requirements Group Lead*

Spring 2018

- Lead the development of requirements for a ground-based autonomous rover system and its software
- Used systems engineering methods and ConOps creation to support other groups on team

-Leadership in Organizations

-Leadership Experience

-Systems Engineering

-Modeling and Simulation

-Systems Integration and Test

-Space Systems Engineering

-Mission Operations

-Neptune CGA

-Conceptual Design

-Concept of Operations

-System Architecture

-Generalist

-Trade Studies

-Astrodynamics

-Linux

-STK

-C++, MATLAB, SQL

-Harnessing