# runphilrun.github.io in philiplinden philip-linden PROFESSIONAL SUMMARY

# PHILIP J. LINDEN

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I am a recent graduate who is passionate about the design and analysis of aviation and space systems, including but not limited to satellites, human spaceflight, spacecraft and aircraft structures, propulsion, mechanisms, imaging, and controls. I am relentlessly curious, a strong visionary, and optomistic about the future of technology and humankind.

### DEGREE

Rochester Institute of Technology, Rochester, NY Aug 2012 – May 2017

Bachelor of Science in Mechanical Engineering – Aerospace Option GPA: 3.5 Master of Engineering in Mechanical Engineering (Dual Degree) GPA: 3.3

## ENGINEERING EXPERIENCE

# Lockheed Martin Space, Sunnyvale, CA

June 2017-Present

Electro-Optical Engineer, Optical Payload Center of Excellence

Engineering Co-op, Ultrasonic Non-Destructive Test Lab

- Planned and conducted experiments and analysis to characterize focal plane arrays.
- Led a software team through critical development milestones for a Matlab engineering tool.
- Led a team to win a company-wide machine learning hackathon with Python and sci-kit learn.

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SpaceX, Hawthorne, CA	June–August 2016
Vehicle Engineering Intern, Capsule Structures	
RIT Center for Detectors, Rochester, NY	March-May 2016
Lab Assistant, Mechanical Engineer	
SpaceX, Hawthorne, CA	January–July 2015
Vehicle Engineering Intern, Capsule Reusability	
GE Aviation, Cincinnati, OH	January–May 2014

### PROJECTS

# Cosmic Dawn Intensity Mapper System-Level Design, github.com/runphilrun/CDIM-design

Contributed to a proposal for a Probe Class (~\$850M) NASA mission for a 1.5 meter space telescope intended to observe near-infrared light from the early universe.

- Compiled financial, mass, and power budgets for the optics, instruments, cryocooler & spacecraft.
- Defined system-level design, generated representative CAD models and figures for the entire spacecraft.

# 1 kW Arcjet Thruster, github.com/RIT-Space-Exploration/msd-P17101

Developed the concept, system-level design, and nozzle design for a small scale arcjet thruster demonstration. Worked in a multidisciplinary team of mechanical and electrical engineers.

- Responsible for communication between the team and the customer (RIT Space Exploration).
- Designed and performed CFD analysis on the thruster nozzle.