

# Sam Conkle

US Citizen and dedicated engineer with 3+ years project experience who is well versed in working in a group setting, as a leader and as a team member.

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## EXPERIENCE

### Senior Design: Project NEXTSTEP — CAD Subteam Member & Human Factors Liaison

January 2021 - May 2021

- Collaborated with different subteams to develop accurate SOLIDWORKS models of all systems and vehicles for a theoretical lunar colony.
- Researched and designed retrofitted ISS exercise and physiology equipment to be used on the lunar base.

### Purdue Orbital — Avionics Design Lead & Test Engineer

2018-2021

- Lead a team of 8 members to design and develop software and hardware for control, data retrieval, and emergency systems for a rocket and floating launch platform.
- Designed safe tests for systems and parts to ensure they met specification.

### Purdue University Residences — Resident Assistant

2018-2021

- Foster an open and welcoming community for first year students, meet and help mentor prospective engineers.
- Enforce policy and ensure physical and emotional safety of all residents in the largest residence hall on campus.

### Morton Grove Public Works — Summer Assistant

2018-2021

- Assist City Engineers in repairing and maintaining residential, waste, and emergency water supplies of Morton Grove.

## EDUCATION

### Purdue University — B.S. Aeronautical & Astronautical Engineering

August 2017 - May 2021

- Specialized in Dynamics & Control
- Purdue Presidential Scholarship Recipient (2017 - 2021)

## SKILLS

### Programming Languages:

C, Python, Matlab, Simulink

### Software / CAD Packages:

Microsoft Office, Autodesk Inventor, Fusion 360, CATIA, SolidWorks, Blender, XFLR, GMAT

### Academic Proficiencies:

Aerodynamics, Control Systems, Orbit Mechanics, Structures, Systems Engineering, Performance Analysis, Dynamics, Statistical Methods, Optimization, Fluid Mechanics, Thermodynamics, System Integration

## AWARDS / RESEARCH PUBLICATIONS

Eagle Scout - Boy Scouts of America - 2017 Organized a 5K benefiting Special Olympics Softball Team.

Purdue University Semester Honors - Fall 2020

Published Aerospace History Research article in *Think Magazine* - Fall 2019

Did original, archival research on the System Engineering failures and workplace culture that led to Gemini 8 near-disaster.