Chandler Hutchens

(224)-234-2089 | chutchens99@gmail.com | astrochan99.github.io

SUMMARY

Aerospace engineer with B.S.E and M.S. degrees, skilled in systems engineering, research, and project management, with proficiency in Model Based Systems Engineering, integration, and a strong record with flight hardware in the space industry.

EDUCATION

B.S.E. Aerospace Engineering (Astronautics) May 2023
Arizona State University, Tempe, AZ 3.63 GPA – *Magna Cum Laude*

M.S. Aerospace Engineering May 2024
Arizona State University, Tempe, AZ 3.70 GPA

TECHNICAL SKILLS

Model Based Systems Engineering (MBSE): Cameo Enterprise Architecture (proficient), SysML (proficient)
Requirements: DOORS (familiar)
Orbit Analysis: STK (proficient), SOAP (familiar)
Design: Solidworks (proficient), NX (familiar), Fusion 360 (familiar), Ansys (familiar), ABAQUS (familiar)
Programming: MATLAB (proficient), Python (familiar), GitHub (familiar), HTML (familiar)
Certification/License: STK Level 1, Private Pilot (4283389), Radio Technician (KK7LSC)

PROFESSIONAL EXPERIENCE

Northrop Grumman Corporation: Systems Engineering Intern (Full Time - 9/80) **May 2023 – July 2023**

- Worked in the Mission Systems (MS) sector in the Navigation, Targeting, and Survivability (NTS) group
- Responsible for LA+ LITENING Pod Cameo integration
- Developed various BDD's, component IBD's, pin level IBD's, use case diagrams, and activity diagrams

Interplanetary Lab: Lab Manager and Project Engineer (25 hr/week) **July 2020 – May 2024**

- Systems Engineer of DORA CubeSat (launch expected 8/24 – NG-21) focused on cabling, procedures, testing, staking, Nanoracks/NASA documentation, and delivery
- Calculated various spacecraft budgets (Radio link, Power, Cost, and Mass)
- Design, assembly, and delivery of patch antenna cover for SPARCS (Star Planet Activity Research CubeSat – launch expected 2024)
- Head Systems Engineer of ROAMER (Reusable Orbital Asset Maintenance and Examination Robot) and wrote the mission proposal for Space Force STTR
- Testing engineer on Lightcube CubeSat (launched 3/2023 – SpX27)
- Critical design reviews with professional engineers (Red Wire Space), AFRL, professors, and grad students • Lead in restoring a vacuum chamber and adding thermal control

LunaH-Map, Tempe, AZ: Aerospace Engineering Intern (6 hr/week) **September 2019 – May 2020**

- A NASA CubeSat mission heading to orbit the Moon (launched 11/2022 - Artemis-1)
- Designed solar array bracket connector and plate
- Assisted in assembling spacecraft in the cleanroom with the Head Mechanical Engineer
- Reviewed parts in Solidworks from low to high-level integration

RELATED COURSEWORK

Space Vehicle Dynamics/Control, Thermodynamics, Aerodynamics, High-Speed Aerodynamics, Circuits, Signals and Systems, Space Systems Design, Rocket Propulsion (MS), Aircraft Propulsion (MS), and Linear Algebra (MS)

AWARDS

Dean's List (Fall 2019, 2021, 2022 & Spring 2020, 2022, 2023)
Air Force Academy Nomination in 2019 (Honorable David Schweikert)