Chandler Kilpatrick

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📍 San Jose

EXPERIENCE

Software Engineering Intern

National Aeronautics and Space Administration

📅 03/2019 - 05/2021   📍 NASA Ames Research Center

- Wrote a validation framework for LPDM (a state of the art Partially Observed Markov Decision Process solver)
- Built a Van Der Pol Tag (VDPT) implementation using the Julia programming language.
- Updated and expanded unit test coverage to ensure consistent code quality.
- Evaluated and researched Open Source Lunar Map visualization tools such as MMGIS.
- Summer 2019: Full time, Fall 2019: Part time, Spring 2020: Part time, Summer 2020: Full time, Fall 2020: Part time, Spring 2021: Part time

Heat shield Project Manager

National Aeronautics and Space Administration L' Space Academy

📅 01/2019 - 05/2019

- This program was designed to help gain greater insight and skills in NASA mission protocols, procedures, and practices as well as provide an opportunity to work within an interdisciplinary, co-located team of students that are passionate about science and engineering.
- Focused on Heat shield project for the NASA Lucy Mission.

TECHNICAL SKILLS

Julia	SolidWorks Modeling	CREO Modeling

Autodesk Inventor Modeling	Python	Java	R

EDUCATION

Data Analytics, Mathematical Sciences, and Climate Science

University of Pennsylvania

GPA
3.83 / 4.0

📅 09/2019 - Ongoing

- Transferred from San Diego Sate University in 2019 where I was a MechE major.

VOLUNTEERING

Open Source Software Developer

GitHub

📅 03/2019 - Ongoing

- Contributed to multiple open source projects (POMDP Gallery, Van Der Pol Tag, etc.)
- Hacktober Fest 2019 Participent

Eagle Scout

Boy Scouts of America

📅 2011 - 2017

Acted as a mentor to the first year Scouts and helped them advance through required ranks.

Participated in hundreds of hours of volunteering and ultimately obtained the rank of Eagle Scout.