

HUNTER M. KAHN

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ABOUT ME

With over three years of engineering experience, I have contributed to flight proven hardware, including work on an orbital flight test of SpaceX's Starship. I thrive in fast-paced environments and embrace challenges. Alongside strong interpersonal skills, I am adept in standard industry tools such as NX (CAD), ANSYS (CFD & FEA), MATLAB/SimuLink and Microsoft Office Suite.

EDUCATION

Cornell University, Ithaca, NY
M.Eng Aerospace Engineering, May 2024

Cornell University, Ithaca, NY
B.S. Mechanical Engineering, May 2023

EXPERIENCE

SpaceX, Brownsville, TX, *Associate Engineer, Post Grad.* **June 2023 - August 2023**

- Responsible engineer for a pneumatic system used on Starship's third orbital flight test.
- Conducted analysis on hardware and flow dynamics to ensure compliance with system requirements.
- Collaborated across teams, including Structures, Avionics and Integration, to finalize designs.

Cornell Design, Build, Fly, Ithaca, NY, *Mechanical Sub-team Engineer* **September 2021 - May 2022**

- Applied engineering principles to design the aircraft fuselage, battery compartment and nose cone.
- Assisted in the fabrication, manufacturing and assembly processes.
- Implemented organizational improvements to the fuselage model within SolidWorks.

PROJECTS

Separation Dynamics of Spinning Spacecraft and Deployment Arm Requirements Spring 2024

- Developed a MATLAB/SimuLink script to model separation dynamics for a spinning ride-share spacecraft.
- Simulated potential missions using existing orbit data to validate technology efficacy.
- Drafted design requirements based on analysis results.

Ride-Share Spacecraft Senior Design Project Spring 2024

- Designed an Orbital Transfer Vehicle, moving from Systems Requirement Review to Preliminary Design Review.
- Performed trade analyses for each subsystem to balance function and optimize Size, Weight and, Power (SWaP).

Raptor Engine Combustion Analysis Spring 2024

- Collaborated with a team to model ignition dynamics of the Raptor engine using Cantera.
- Visualized the gas flow using ANSYS Fluent based on results from the Cantera model.

Wind Turbine Design Project Fall 2022

- Designed and manufactured wind turbine blades suited for wind regions characterized by a Weibull distribution.
- Tested the designs in a wind tunnel to ensure optimal power generation.

EXTRACURRICULARS

Phi Sigma Kappa

President

May 2021—May 2022

Managed daily operations and communicated with alumni and university officials.

Cornell Tech Consulting

Member

Sep 2019 — Fall 2022

Conducted surveys and provided marketing strategies for clients along with a team.

Various Employments

August 2019 — Current

Worked in restaurants as a line cook and as a Doordash/Uber driver for income throughout college.

Cornell Ski Team

Member

Winters 2020 - 2022

I just like to ski race!

Language: Native proficiency in English, Spanish