

Sean H. Fruman

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Mechanical Engineering | Dyson Business Minor for Engineers
GPA: 3.39; Dean's List, Spring 2023, Fall 2024 Expected May 2026

Relevant Courses: Spacecraft Mechanics, Fluids and Heat Transfer Laboratory, Mechatronics, Propulsion of Aircraft and Rockets, System Dynamics, Mechanics of Engineering Materials, Physics: Oscillations Waves & Quantum Mechanics

LEADERSHIP EXPERIENCE

Cornell Mars Rover, Ithaca, NY Oct 2022-Present

Team Lead

- Leading and administering a 50+ student project team with the objective to design, build, and test a rover system to annually compete in the University Rover Challenge
- Coordinating weekly work sessions and all-hands meetings as well as overseeing preliminary, critical, and final design reviews; maintaining online communication through Slack and documentation through Confluence
- Managing budgets, processing orders, and overseeing outreach to industry sponsors as well as fundraising through our alumni network; Organizing networking sessions connecting members with industry-leading partners

PROFESSIONAL EXPERIENCE

L3 Harris, Salt Lake City, UT June 2025-Aug 2025

Mechanical Engineering Intern

- Developed a test procedure to verify thermal conductivity of interface materials using commercial off-the-shelf and custom machined parts, defining requirements from heat transfer calculations
- Designed stackable Input/Output test modules in Siemens NX and prototyped with Multi Jet Fusion 3D printing
- Gained exposure to ANSYS Icepak for electronic packaging thermal analysis and authored environmental analysis reports (fluid contamination, sand & dust, explosive atmosphere) to validate designs for customer review

Red Hook Art Project, Brooklyn, NY July 2024-Aug 2024

Music Department Lead

- Educated school-age children with prepared lessons on rudimentary guitar exercises, basic music theory, and music composition with digital audio workstations and Musical Instrument Digital Interface tools
- Engaged and communicated with children from diverse ethnic backgrounds through language barriers
- Assisted with managing supplies and maintained technology and equipment throughout the art studio

Ground Central Coffee Company, Lynbrook, NY June 2020-Aug 2023

Cashier and Maintenance

- Operated a Point-of-Sale system, stocked items, and prepared a variety of beverages and food items
- Organized and contributed to community-benefitting events such as fundraisers, and local outreach activities
- Provided excellent customer service by addressing needs, resolving concerns, and engaging with clients

CAMPUS INVOLVEMENT

Cornell Media Guild, Cornell University, *Musician* Aug 2024-Present

Delta Kappa Epsilon Fraternity, Cornell University, *New Member Educator, House Steward* Mar 2023-Present

Cornell Repertory Jazz Ensembles, Cornell University, *Rhythm Guitar* Jan-May 2024 & 2025, Aug-Sep 2024

ADDITIONAL EXPERIENCE

St Paul's African Methodist Episcopal Church, Lynbrook, NY, *Lead Guitar* May-Aug 2022

Joshua Lafazan 2021 Re-Election Campaign, Roslyn, NY, *Volunteer* June-Aug 2021

SPECIALIZED SKILLS

Programs: ANSYS Workbench, Teamcenter PLM, Siemens NX, Autodesk Fusion 360, Autodesk Inventor, MATLAB

Languages: Russian (fluent), French (intermediate)