

# Sean H. Fruman

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## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY

**Expected May 2026**

Bachelor of Science, Mechanical Engineering | Dyson Business Minor for Engineers

GPA: 3.39; Dean's List, Spring 2023, Fall 2024

**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)