

Spencer Soohoo

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EDUCATION

Brigham Young University

Bachelor of Science: Mechanical Engineering: GPA 3.21

Est Graduation: Apr 2027

Provo, UT

PROJECTS

Personal Engineering Projects (additional details and photos available upon request, and in this [portfolio](#))

- Designed and built vehicles including a Monowheel, electric Mini-Bike, Shopping Cart Electric Go-Kart, and Barbie Jeep power-racing modification, bringing creative ideas to life

Global Engineering Outreach

Aug 2025-Present

Prototyping/Design Lead

Designed in Provo, UT, Implemented in Ibarra, Ecuador and Viacha, Bolivia

- Researching chemical additives and developing tests to optimize properties of low cost prosthetic liners
- Designing and prototyping a low cost quinoa planting device for Bolivian communities

EXPERIENCE

US Synthetic

May 2026-Present

Process Engineering Intern

Orem, Utah

- Optimizing manufacturing processes using Lean Six Sigma Principles
- Automating manufacturing processes by improving and developing proprietary machines
- Saving company ~ \$500k per year by implementing a new dry diamond feeder system, eliminating waste

Lift Aircraft

Jan 2026-Present

Mechanical Engineering Associate

Remote

- Optimizing weight reduction, reliability, and maintenance efficiency for flight-critical components
- Collaborating with cross-functional teams to ensure compliance with safety and performance standards.

Lift Aircraft

May 2025-September 2025

Mechanical Engineering Senior Intern

Austin, TX

- Bridged cross department-efforts, assisting with mechanical, customer operations, maintenance, electrical, training development, sales, ground + flight operations, and more
- Independently performed root cause investigation and failure analysis, successfully identifying & solving a part failure. Wrote a report that allowed Lift to get re-certified to fly in Japan
- Earned a raise after first week, later promoted to senior intern, concluded with a return offer

VOLUNTEER EXPERIENCE

Church of Jesus Christ of Latter-Day Saints

Jul 2022-Jul 2024

Full-time Representative/ Missionary

Hong Kong, China

- Planned and executed community service projects and engagement every day for 24 months
- Lead and motivated a diverse team of 20 missionaries with personally tailored strategies
- Delivered real-time translation services for meetings and conferences between Cantonese and English

SKILLS

- **Software:** Python, Excel, FEA, CAD (Fusion, OnShape, Solidworks), CAM, wire harness design and 3D printing
- **Language:** Professional working Cantonese Chinese, Elementary Mandarin Chinese, and Spanish
- **Fabrication:** Experience with designing and building projects using various materials and techniques Proficient in TIG and MIG welding, CNC milling and routing, lathe operation, and metalworking
- **Business:** Marketing, sales, communication, leadership, project management, lean six sigma
- **Interests:** Retail investing, drones/eVTOL aircraft, AI/machine learning, skiing, mystery movies, outdoors (Eagle Scout)