EMMA BREWER

Austin, TX | brewerel@rose-hulman.edu | emmabrewerportfolio.com

Engineering Design student with hands-on experience in fabrication, machining, SolidWorks, and wearable tech development. Seeking a Summer 2027 engineering internship.

EDUCATION

Rose-Hulman Institute of Technology – Terre Haute, IN — Expected May 2030
Bachelor of Science, Engineering Design | Minor: Entrepreneurship

- Member of **ESCALATE**, Rose-Hulman's entrepreneurship community, completing specialized entrepreneurship coursework toward the minor

Acalanes High School – Lafayette, CA — May 2026
GPA: 3.81 | Relevant coursework: Engineering & Applied Physics Honors, Design & Fabrication, Advanced Automotive, AP Calculus AB

SKILLS

Fabrication: General machining, general woodworking, welding, power tool operation, automotive repair, garment construction, pattern drafting
Software: SolidWorks, Java
Design: Prototyping, sensor integration

EXPERIENCE

Contract Garment Developer, Astherion – Remote (San Francisco, CA) — Jun – Aug 2026

- Drafted original patterns and produced 10+ final garments across a wide size range for a smart activewear startup that tracks athletes' body temperature, strain, and posture
- Led design decisions on a 4-person team, researching and testing methods for integrating sensor wiring into garments

MIT CubeSat Project — 2025 – 2026

- Designed a mini satellite and a simulated lunar environment and mission as part of a 5-person team; advanced to the final round of judging

Vehicle Restoration, Client Project — 2025 – 2026

- Restored a Jeep damaged in a head-on collision, including engine repair, hood replacement, exterior painting, and full interior/exterior detailing
- Operated specialized tools including grinders, polishers, and paint guns

LEADERSHIP & ACTIVITIES

Costume Head, Acalanes High School Stagecraft — 2022 – 2024

- Led a team of 4–6 students in constructing costumes for two productions per year, executing designs under direction from the show's director and costume manager
- Promoted from Costume Crew Member (2021 – 2022)

Auto Shop Honors, Acalanes High School — 2024 – 2026

- Led the cleanup and restoration of the auto shop classroom; completed 10+ projects ranging from tire changes to headlight wiring
- Helped organize and run the shop's first annual car show fundraiser

Independent Art Study – Built a personal sewing portfolio through self-directed projects (emmasews.com) — 2024 – 2025

AWARDS

- **Presidential Service Award** – 200+ volunteer hours, including theater production support and Exploring New Horizons
- **Project LPIE Winner (3x)** – 3D Art/Applied Design: 1st (2025), 2nd (2026); Engineering: 1st (2026)
- **Acalanes Silver A Award (2x)** – Teacher-nominated for student excellence (2025 – 2026)
- **Automotive Excellence Award** – Most Valuable Senior (2026)