Henry Anderson

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Profile

Mechanical Engineering Student with strong work ethic and a knack for solving problems. Mechanically inclined and capable of physical labor. Professional and capable of working with a team or alone. Motivated individual who can work with minimal supervision.

Education

GPA: 3.600 Expected Graduation: May 2026

Senior Mechanical Engineering Major with a Systems Engineering Minor

Studying for a bachelor's degree from South Dakota School of Mines and Technology

GPA: (Started this Semester) Expected Graduation: May 2027

Accelerated Master's in Mechanical Engineering from South Dakota School of Mines and Technology

Work Experience

Graduate Research: July 2025 to Present

- Implementing a cohesion model using the finite element method in order to simulate the boundary between ferrous grains and a hyper-elastic medium using the Python library Fenicsx.

Cole-TAC: May to Aug 2025

Engineer internship

- Designed and built a machine to automatically thread a strap through a buckle and melt the strap to its self.
- Designed, programed, and built "Office Boxes" that indicate the state of each office to every other office.
- Designed and implemented multiple fixtures and process improvements.

Doosan Bobcat: Jan to Aug 2023, and May to Aug 2024

Manufacturing Project Engineering Co-Op and Internship

- Re-worked existing manufacturing line.
- Designed perpendicular unload system for towline.
- Built prototype machines and preformed time & ergo studies during the builds.
- Assisted in layout and installation of a manufacturing line.
- Worked with contractors and ensured work was done correctly and materials were delivered.
- Designed and implemented multiple fixture and process improvements.

Student Projects and Student Organizations

- President of the fencing club on campus.
- Designed and build a thermal-acoustic engine that generated power.
- Designed and built a remote-controlled impeller jet-boat.
- Formula SAE suspension team member.
- Designed a boat for the Autonomous Robotic Boat team on campus.

Skills

CAD (primarily Solid Works, Inventor, and Creo), Matlab, Python, FEA Software (primarily Abaqus),

FEA Custom Programs (using Fenicsx to create non-standard equations and analysis for FEA)