

Christian Brown

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Mechanical Engineering student at NAU with a projected Bachelor's completion date of December 2025. Accelerated Master's Program for M.E. with a projected completion date of December 2026. Hard worker who enjoys working hands-on with a great amount of intuition and logic. Strong communication skills and enjoys problem solving and the process of working to solutions. Attentive and detail oriented, with excellent visualization skills. President of the Arizona Gamma Chapter of Tau Beta Pi at NAU. Influential member of Engineering Joint Council at the Steve Sanghi College of Engineering. On the Dean's list every semester with a current GPA of 3.9.

Education

Northern Arizona University, Flagstaff AZ

Bachelor's Degree in Mechanical Engineering

December 2025

Master's Degree in Mechanical Engineering

December 2026

Work Experience

Advanced Materials Research Laboratory, NAU

June 2025 – Present

Testing custom polymer electrolyte films using electrochemical impedance spectroscopy (EIS) using a Parstat 4000 galvanostat. Applying dry and wet conditions to test impact on film behavior. Documenting test results in lab notebook and submitting findings in scientific report format. Learning digital image correlation (DIC) in parallel with developing test procedures to achieve consistent strain results using different materials. Utilizing Bluehill software on Instron test frame.

Hydro Extrusions, Phoenix AZ

Summer 2023

Worked full time in a Die Shop, cleaning, organizing, machining, and repairing dies for three different extrusion presses. Problem solved every day with different sizes, qualities, and worn dies. Repaired dies with wash out, cracks, and feeding issues. Worked with Tesla engineers preparing, cleaning and fixing exclusive Tesla product dies for presses. Gained experience in overhead cranes, powered pallet trucks, and forklifts.

Papa Murphy's International, Santa Rosa CA and Flagstaff AZ

2019-2023

As Shift Manager, independently opened and handled money when doing transactions and closing at the end of the night. Customer service and fast-paced work environment.

Jays Engraving, Santa Rosa CA

2019-2020

Designed and produced stamps, plaques, and badges using graphic design software and tooling. Used machine and laser engravers, table saws, drill presses, and other manufacturing tools.

Skills

Communication, customer service, manual labor, hands-on work, woodworking tools, metalworking tools, laser cutters, basic welding experience, problem solving, intuition, common sense.

Projects

CWC Generator Capstone

2025

Capstone team tasked with researching and developing a small-scale electromagnetic generator to be used by the Collegiate Wind Competition team. Currently in the research and testing phase, repairing an existing custom test bench for the generators (dynamometer). Learning Ansys Maxwell to model generators and test them in 3D space.

Societies

Collegiate Engineering Honors Society Tau Beta Pi, ASTM International, National Society of Leadership and Success