Connor Faur

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Education

Western Michigan University   Dec 2025

Bachelor of Science in Aerospace Engineering

Minor in Mathematics

Relevant Coursework: Aircraft Design, Aerospace Structural Design, Turbine/Rocket Propulsion, Aircraft Stability and Control, Orbital Mechanics, Compressible Aerodynamics, Incompressible Aerodynamics

Experience

Teammate, Under Armour – Birch Run, MI   Oct 2021 – Present
- Maintained high transaction accuracy in a high volume retail environment
- Managed cash handling, inventory restocking, and daily store operations
- Demonstrated reliability by frequently covering shifts and supporting staffing needs
- Delivered consistent and positive customer service in fast-paced conditions

Paraprofessional, Reese Summer Migrant Program – Reese, MI   Jun 2021 – Jul 2025
- Supported instruction for grades 5-8 through classroom logistics and supervision
- Coordinated safety procedures and student transportation for field trips
- Assisted with curriculum preparation and classroom organization for effective instruction
- Provided Technical Assistance for classroom equipment and technology to minimize interruption

Team Member/Leader, FRC Robotics – Reese, MI   Aug 2017 – May 2021
- Led mechanical design, system integration of competition robots, improving overall performance
- Coordinated fabrication, testing, and troubleshooting of robot systems
- Improved robot subsystem reliability through iterative testing and design refinement

Projects

Senior Engineering Project - 3D Printed Supersonic Nozzle
- Designed a converging-diverging nozzle using method of characteristics to achieve supersonic flow under 100 psi
- Developed MATLAB scripts to generate nozzle contours and export geometry for CAD and CFD integration
- Performed 2D and 3D CFD simulations analyzing Mach number, shock formation, and pressure distribution
- Manufactured nozzle using FDM 3D printing with Hyper PLA to increase dimensional accuracy
- Conducted pressurized airflow testing in laboratory pressure chamber at pressures up to 90 psi
- Calculated exit Mach number using both dynamic pressure measurements and isentropic compressible flow relations

Aircraft Design Project - Crop Duster Conceptual Design Project
- Designed a mission based agricultural aircraft under performance and operational constraints
- Performed weight estimation, payload-range analysis, and wing sizing calculations
- Conducted stability, control, and CG envelope analysis
- Sized control surfaces and evaluated control effectiveness
- Verified aircraft performance using MATLAB based turn rate and load factor calculations
- Developed CAD model based upon mathematical analysis, with component layout and structural material selection

Skills

Programming Languages: MATLAB, C
Software/Tools: Fluent, Abaqus, AutoCAD, Fusion 360, OpenVSP, XFLR5, LabVIEW, LTSpice