

Emily Herman

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PROFESSIONAL SUMMARY

Mechanical Engineer with experience in project engineering, hardware and tool design, drafting to ASME standards, and hardware testing. Interested in applying coding knowledge to engineering problems.

TECHNICAL SKILLS

Engineering: NX | Creo Elements Pro | Solidworks | ANSYS | GD&T | Manual Lathe & Mill Machining | Additive Manufacturing | Teamcenter | Windchill | DOORS

Programming: JavaScript | C | MATLAB | HTML | CSS | JQuery | React | MySQL | MongoDB | ExpressJS | NodeJS | AJAX | JSON | Web APIs

Common: Microsoft Office | SAP

EDUCATION

Certificate in Full Stack Web Development – Michigan State University; East Lansing, MI | **2021**

Bachelor of Science in Mechanical Engineering – University of Utah; Salt Lake City, UT | **2016**

WORK EXPERIENCE

Williams International – *Gas turbine engine design and manufacturing*

Senior Engineer – Repair & Overhaul | Pontiac, MI | November 2019 – November 2020

- Evaluated returned engine hardware for airworthiness and wrote instructions for hardware repair.
- Co-led Repair Station effort to prepare tooling for the recertification of 4,000+ engines for Tactical Tomahawk missiles. Completed task within schedule and budget constraints.

Senior Engineer – Military Projects | Pontiac, MI | October 2018 – November 2019

- Created tolerance stack-ups to evaluate feasibility of component design changes and updated CAD models accordingly.
- Presented technical details to customers during product review meetings. Led internal schedule review meetings.

Engineer – Assembly & Test | Ogden, UT | January – October 2018

- Designed test hardware, engine assembly tools, and assembly line fixtures.
- Designed and additively manufactured hardware kitting trays. The trays were met with enthusiastic response from assembly technicians and management, as they reduced assembly time and errors.

Engineer – Proprietary Design | Walled Lake, MI | July – December 2017

- Designed and drafted engine hardware to ASME standards using NX CAD software.
- Designed and constructed a manufacturing process bench using 80/20 extruded aluminum.

Engineer – Commercial Projects | Walled Lake, MI | February – July 2017

- Helped perform engine tests and analyzed flight data in MATLAB.
- Wrote report to aid in FAA certification of a new engine model.
- Wrote Excel macros to generate accurate test documentation. Excel workbook was published by management on company intranet for widespread use.

Engineering Intern – Military Projects | Walled Lake, MI | May – August 2016

- Revised hardware and engine drawings using Creo Elements Pro.
- Assisted with engine testing; wrote test directives and reports.

Utah Composites Laboratory | Salt Lake City, UT | February – May 2016, August – December 2016

Undergraduate Research Assistant

- Polished carbon fiber laminate samples for use in graduate student research.
- Machined laboratory test fixtures on manual mills and lathes.