

Emily Herman

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Portfolio: github.com/EmilyAH-01/Portfolio

PROFESSIONAL SUMMARY

Full stack developer leveraging engineering experience and design sensibilities to create complex, visually appealing web applications. Gained experience in Javascript, C, and Matlab from a certificate in full stack web development (Michigan State University) and a Bachelor's degree in Mechanical Engineering (University of Utah). Thrives in fast-paced working environments and seeks to work on a team with other passionate, detail-oriented developers.

WORK EXPERIENCE

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|---|---|
| Williams International- <i>Gas turbine engine design and manufacturing</i> | Pontiac, MI; Ogden, UT; Walled Lake, MI |
| <i>Senior Engineer - Repair & Overhaul</i> | November 2019 – Present |
| <i>Senior Engineer - Military Projects</i> | October 2018 – November 2019 |
| <i>Engineer - Assembly & Test</i> | January – October 2018 |
| <i>Engineer - Company-Proprietary Design Project</i> | July – December 2017 |
| <i>Engineer - Commercial Projects</i> | February – June 2017 |
| <i>Engineering Intern- Controls and Accessories, Military Project Engineering</i> | May – August 2015, 2016 |
| <ul style="list-style-type: none">Designed and drafted engine hardware to ASME standards using NX and Creo Elements ProCreated tolerance stackups to evaluate feasibility of component design changesDesigned test hardware, engine assembly tools, and assembly line fixturesEvaluated returned engine hardware for airworthiness and wrote instructions for repairPlotted and analyzed flight data in MATLABAssisted in conducting hardware and engine testing; wrote corresponding test directives and reportsWrote a certification report to aid in FAA certification of a new engine modelPresented to customers during product review meetings | |
| Utah Composites Laboratory | Salt Lake City, UT |
| <i>Undergraduate Research Assistant</i> | February – May 2016, August – December 2016 |
| <ul style="list-style-type: none">Used manual mills and lathes to machine test fixture components for graduate student researchPolished carbon fiber laminate samples to be used in NASA-funded research | |

PROGRAMMING PROJECTS

Weather Dashboard – Displays current and forecasted weather data for a user-input city.
Brewery Finder – Locates nearby breweries and calculates routes between user selections (Chrome only).
Workday Scheduler – Saves user input to local storage to persist upon page refresh.

TECHNICAL SKILLS

Programming: JavaScript | Node.js | Express.js | AJAX | JSON | HTML | CSS | C | MATLAB
Engineering: NX | Creo Elements Pro | Solidworks | ANSYS | GD&T | Manual Lathe & Mill Machining
Common: Microsoft Office | SAP | Teamcenter

EDUCATION

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| Michigan State University | East Lansing, MI |
| <i>Certificate in Full Stack Web Development</i> | September 2020 – March 2021 |
| University of Utah | Salt Lake City, UT |
| <i>Bachelor of Science, Mechanical Engineering</i> | August 2012 – December 2016 |