

Kristen Heaton

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<http://heatonke.wixsite.com/heatonengineering>

Education

James Madison University, Harrisonburg, Virginia, Class of May 2019

- Bachelor of Science in Engineering, ABET Accredited
- Cumulative GPA 3.318 - Dean's List Fall 2015, Spring 2018

Coursework and Research

Small Batch Coffee Roaster Design, Design III & Design IV, JMU, 2017-Present

- Served as *Project Manager* – Maintained contact between team with advisor and client. Organized meetings and distributed team and advisor agendas on a weekly and daily basis. Lead team weekly goal discussions for team and project logistics.
- Collaborated with a four-person team for a local non-profit to determine requirements for a custom, small batch coffee roasting machine

Human Powered Vehicle Design, Design I & Design II, JMU, 2016-2017

- *Secretary* of seven-person team. Recorded meeting times and tasks. Documented and assisted in organizing weekly tasks - Spring 2017
- Collaborated with a five-person team that met with a client to specify features of desired specialized human powered vehicle as well as learning about the engineering design process in class - Fall 2016

Wayfinding with Dr. Elise Barrella, November 2016

- Compiled different Wayfinding sources and materials into defined list over approximately 5-6 hours using Department of Transportation literature and existing Wayfinding in various cities including Adelaide, Australia.

Museum Exhibit Development, Introduction to Engineering, JMU, January-May 2016

- Four-person project that crafted a circuit building lesson plan for 9-12-year-old patrons of Explore More Discovery Museum, Harrisonburg, Virginia

Board Game Development, Projects in Engineering, JMU, September – December 2015

- Designed a game with four other teammates based on biomimicry intended for local third-grade students covering subjects in Math, Science, History, and English

Engineering Experience

GHT Limited – May – August 2018

- *Plumbing Design Intern* – Developed basic skills in AutoCAD MEP 2016; Introduced to international and local building codes; Created master resource sheet for base building studio plumbing group

James Madison University- Department of Engineering – May - October 2017

- *Student Intern*- Designed and built final human powered vehicle for community client with special needs using computer and physical modeling; Continuation of Design I and II Classes

Mercedes-Benz of Arlington – May-August 2015 & 2016

- *Intern* - Developed automotive skills under a technician team leader.
- Diagnosed, maintained, and repaired various Mercedes-Benz customer vehicles.

Design Challenge Experience

Accenture Innovation Challenge – Accenture– February 16th, 2018

- *Participant*- Member of two-person team that represented James Madison University in a challenge addressing resources for smallholder farmers on the request of CARE U.S.A.
- Multi-faceted solution aimed at stakeholders involving use of products from other non-profits to promote sustainability, gender-equality and fairness.

Bluestone Hackathon – University Innovation Fellows- November 4th, 2017

- *Participant* – Member of three-person team in a design challenge addressing entertainment and utility.

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- Solution aimed at grocery store shopping carts providing a learning experience for children and checkout ease for shoppers

Work and Community Service

James Madison University: Science Math Learning Center - January 2017-Present

- *Math tutor* - Assist students with mathematics topics ranging from algebra to multivariable calculus for five to seven hours per week.

Engineering Leader, ENGR 498 & ENGR 101- August 2017- December 2017

- Learned leadership styles with application sessions in first-year engineering class

James Madison University Bookstore, eFollet – August 2016 & January 2017

- *Sales Associate* - Fulfilled student book orders and transactions by communicating to students and collaborating with other employees.
- Responsible for completing tasks independently. Initiative driven.

Engineering Ambassadors Member - March 2016- May 2017

- Liaison between department and visitors for Open Houses, Acceptance Visits, and Tours
- *Expanding Your Horizons* Conference volunteer- March 18th, 2017
 - Led an engineering workshop, A Day in the Life of a MADE Student, for 6th through 9th graders about the engineering design process
- November 2015 – Student Representative for Engineering Department
 - Assisted the department in answering inquiries requested by attendees
 - Interviewed faculty candidates as a representative to class of 2019