

Alan Halverson

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OBJECTIVE

Seeking a PhD in Mechanical Engineering with research opportunities in energy storage systems.

EDUCATION

B.S. in Mechanical Engineering (ABET Accredited)

University of Wyoming (UW), Laramie, WY GPA: **3.709** Graduated: May 18, 2019 EIT Certified
Green River High School GPA 4.0; National Merit Finalist; WY Policy Debate State Champion: 2014, 2015

RELEVANT SKILLS

- Machine Design, Thermodynamic Analysis, Project Management, Strong Verbal and Written Communicator, Statistical Analysis
- SolidWorks, AutoCAD, Microsoft Excel, PowerPoint, Word, Project, MATLAB, Java and C languages (self-taught)

ENGINEERING EXPERIENCE

Genesis Alkali, Project Engineer, Green River, WY (November 4, 2019 – Present)

- Creating and updating plant engineering standards through technical and industry standards research.
- Completed multiple concurrent plant capital and non-capital projects in a timely manner and within budget by coordinating materials acquisition and work schedules with vendors, contractors, and internal employees.

Intel Corporation, Defect Reduction Engineer, Albuquerque, NM (June 2019 – October 2019)

- Analyzed product defects and associated data to improve factory output and quality.
- Analyzed data that informed factory quality and production metrics.
- Supported production engineers in daily sustaining of factory output and product quality.

UW Mechanical Engineering Department, Senior Capstone Project, Laramie, WY (Sept. 2018 – May 2019)

- Developed a thermodynamic and fluid flow model of the Legacy Molding factory in Riverton, WY using SolidWorks and thermodynamic calculations and provided recommendations for HVAC and equipment placement improvements.

UW Chemical Engineering Department, Undergraduate Researcher, Laramie, WY (Sep. 2018 – May 2019)

- Researched carbon-based capacitor technology for use in energy applications by assisting in preparing specimens and conducting electrical tests including cyclic voltammetry (CV).

Genesis Alkali, Project Engineering Intern, Green River, WY (Summer 2018)

- Conducted statistical analysis on key performance indicators for past projects to evaluate department and contracted project management performance and presented findings to the department head.
- Assisted senior project management with railcar opener project by modeling structural properties of the opening device to optimize strength to weight ratio using numerical methods in MATLAB.

UW, STEP/Tau Beta Pi Paid Tutor, Laramie, WY (Fall 2017)

- Taught engineering students content and concepts of first and second year engineering classes and helped them become more independent learners.

Genesis Alkali, Process Engineering Technician, Green River, WY (Summer 2017)

- Significantly improved Sesqui plant cooling tower operation through research, analysis, and maintenance activities on an induced counterflow cooling tower and presented recommendations to management including improved standard operating procedures and bills of materials for tower maintenance.
- Supported senior engineers on existing projects and concerns.

LEADERSHIP

- Led design group for final project for ME3170 Machine Design class.
- Alumnus of the Wyoming Alpha chapter of Tau Beta Pi the Engineering Honor Society.