**Rowdy Raider**

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**OBJECTIVE:**

Seeking an engineering position that focuses on energy efficiency, building energy and/or sustainability

**EDUCATION:**

Wright State University, Dayton, OH

**Master of Science in Engineering in Renewable and Clean Energy** Summer 2018

GPA: 4.0

**Bachelor of Science in Mechanical Engineering** Spring 2016

GPA: 3.8

**RELEVANT COURSEWORK:**

Thermodynamics Hydropower Energy Efficient Buildings

Renewable Energy Systems Building Energy Informatics Electrical Utility Management

**TECHNICAL SKILLS**

Solidworks MATLAB eQuest

SolidEdge AutoCAD eSim

Ansys C/C++ Microsoft Office

**CERTIFICATIONS**

Six Sigma, Kautex-Textron Dec 2015

OSHA, Kautex-Textron Nov 2014

**PROFESSIONAL EXPERIENCE**

**Energy Engineer,** 2For1 Energy, Yellow Springs OH Jan 2016-Present

* Performed energy audits for residential buildings
* Used energy modeling software to simulate building energy use
* Constructed unique energy tools to analyze specific energy systems
* Provided report to customers with prioritized energy conservation measures (ECM) based on simple payback
* Managed residential energy audits in the city of Wilmington through collaboration with Energize Clinton County (ECC)

**Quality Engineer Intern,** Kautex-Textron, Wilmington, OH Oct 2014-Dec 2015

* + Developed work instructions / visual aids for multiple product lines
  + Updated facilities drawings / floor layouts using AutoCAD
  + Performed time studies for various production lines

**ENGINEERING PROJECTS**

**Modeled energy use of commercial building using eQuest energy modeling software** June 2017

* + Analyzed building site parameters and energy systems
  + Calibrated energy model to the actual electrical energy use data
  + Performed energy simulation to calculate the predicted total energy use for both electric and natural gas

**Analyzed life cycle of automotive air intake** Feb 2017

* + - Utilized TRIZ 40 principles to reduced overall weight of system
    - Increased recyclability of product: Decreased amount of material sent to landfill and made product easier to disassemble
    - Reduced overall environmental impact by 69%

**IECC for Ohio Residential Buildings Comparison** Feb 2013

* Researched suitable building for analysis and differences between the 2009 and 2012 energy codes
* Constructed and performed energy simulations of base and new buildings using eSim and eQuest energy

modeling software

* Investigated additional implementation costs and calculated simple payback for adopting the 2012 energy code

**ORGANIZATIONS:**

Member, American Society of Mechanical Engineers 2013-Present

Dive Master, WSU Scuba Program May 2013-Present

Dean’s List, College of Engineering & Computer Science, WSU 2012-2016

Member, Tau Beta Pi 2012-2016