## **Current Address:**

131 West Fairmount State College, PA 16801

## Joshua Bowman

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The Pennsylvania State University	University Park, PA
M.S. in Nuclear Engineering	First Semester
B.S. in Nuclear and Mechanical Engineering, Magna Cum Laude	Class of Winter 2016, Cumulative GPA: 3.94
Peters Township High School	McMurray, PA
Cumulative GPA: 5.1, Graduated with Highest Honors as PT Scholar	Class of 2013
EMPLOYMENT	
Westinghouse Electric Company	Cranberry Township, PA
Nuclear Components Engineering Intern	June 2016-August 2016
<ul> <li>Compiled as-built templates for secondary side components</li> </ul>	
Performed tolerance stack-ups for various secondary-side components to c	letermine necessary design dimension changes
Created SolidWorks models for design offers and redesigns and performed	d Ansys analysis for component redesigns
• Reviewed technical documents and specifications for maintaining ASME	Code and Westinghouse requirements
The Pennsylvania State University	State College, PA
Course Grader/Exam Proctor (3 Classes, 2 Professors)	August 2015-December 2016
Westinghouse Electric Company	Blairsville, PA
Technical Services Summer Intern	May 2015-August 2013
• Conducted statistical analysis for stress failure tests from various annealin	g furnaces
• Developed experiments to determine the effectiveness of pilger lubricant of	•
• Reorganized tool room for auxiliary tools for cold pilger mills and improv	
Ansys, Inc.	Canonsburg, PA
Quality Assurance Summer Co-op	June 2014-August 2014
• Reviewed code for new builds of software for next release	
• Performed quality assurance testing for verification before releases of proc	ducts on various operating systems
• Compiled customer responses for analysis and created relevant reports for	
CLASSES, PROJECTS, PUBLICATIONS	
Senior Design Project: Boundary Waters Core Redesign	Spring 2016
• Developed a new fuel loading pattern to meet performance requirements f	or Westinghouse theoretical core
• Wrote and implemented Westinghouse ANC code to analyze the core und	
• Met all technical requirements and won best in show among all nuclear en	
Senior Design Project: Additive Manufacturing Metal Powder Separation	Fall 2016
• Developed and improved process for separating three different metal power	
• First stage metal separation currently being implemented in X Material Pro-	
Group Member: Engineering Design Project- CATA Redesign	Fall 2013
<ul> <li>Contributed to engineering project sponsored by ALCOA to increase susta</li> </ul>	
e controlice to engineering project sponsored by Theory to increase sust	
• Worked with a team of four to plan develop, and present new all-aluminu	m bus design which would save over $SI'/(000 \text{ in})$
• Worked with a team of four to plan, develop, and present new all-aluminu fuel through standard bus lifetime and result in lower overall cost	m bus design which would save over \$17,000 in
fuel through standard bus lifetime and result in lower overall cost	m bus design which would save over \$17,000 in
fuel through standard bus lifetime and result in lower overall cost <b>OLUNTEERING, ACTIVITIES, AWARDS</b>	m bus design which would save over \$17,000 in
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Service •

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2008-Current 2004-Current October 2010- Current

## • Day of Caring COMPUTER SKILLS

Habitat for Humanity

Family Promise

Programming and Design: MATLAB, Python, SolidWorks, Excel, Ansys TestBench and WorkBench