

# Conor Forrester

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## PROFESSIONAL SUMMARY

Forward thinking mechanical engineer with over one year's experience in energy efficiency and project management; Skilled in energy systems improvement and data analysis techniques with a strong understanding of engineering mechanics and material behavior; Demonstrated initiative to further education with independent studies in Machine Learning, Python, and Six Sigma Principles

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## EDUCATION

### Master of Engineering in Mechanical Engineering, GPA: 3.12

Lehigh University, Bethlehem, PA

2016

- IAC Energy Audit Certificate

### Bachelor of Science in Applied Physics. GPA: 3.64

West Virginia Wesleyan College, Buckhannon, WV

2014

- Leadership Development: Vice President and Scholarship Chairman of Theta Xi Fraternity

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## EXPERIENCE

### Student Participant

#### Lehigh University Industrial Assessment Center

- Analyzed electricity, gas usage monthly trends; recognized discrepancies with peak demand and demand charges
- Consulted with plant managers to acquire equipment information; identified idiosyncrasies in industrial energy systems using diagnostic instruments
- Performed calculations to establish process efficiency solutions with payback periods; provided annual energy savings up to twenty percent

### Energy Auditor Intern

#### West Virginia Split Rail

- Recommended method to accurately measure log inventory using laser technology
- Developed procedure to chemically convert sawdust to ethanol; provided potential profit margin in renewable fuel market

### Data Analysis

- Profitability analysis, compared year over year sales using pivot tables in MS Excel
- Applied DMAIC process of Six Sigma to case studies (bike helmet safety, hiking boot production)
- Measured probability distributions and statistical inference for process performance

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## TECHNICAL SKILLS

Matlab, Python, AutoCAD, Inventor, Microsoft Office