

# Christopher A. Lucke

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## Objective

A Mechanical Engineering position with interests in manufacturing and research and design.

## Education

Penn State Erie, The Behrend College  
Bachelor of Science in Mechanical Engineering Technology, expected graduation May 2010

Highlands Sr. High School Graduate 2005

## Academic Experience

Lean Manufacturing  
Machine Design  
Heat Transfer

Finite Element Analysis  
Rapid Prototyping  
Calculus I & II

Project Management  
Labor & Employment Relations

Differential Equations  
Industrial Hydraulics / Fluid Power

- Construction of SAE Super-Mileage vehicle – *Penn State Erie*
  - Used relevant education and available tools to design and fabricate new engine for annual competition
- Lean Manufacturing Project – *Welch's, Northeast PA* [December 2009]
  - Analyzed given warehouse operations to improve pallet picking processes and reduce wastes.
  - Worked with team to develop improved process plan to reduce cycle times of pallet picking process
  - Developed solution with detailed expense reports, time studies and drawings for improvements
  - Implemented ideas of Just In Time manufacturing and organizing quick changeover schedules

## Technical Experience

Engineering Internship, Portec Rail Products, Fox Chapel PA  
2008/2009]

[Summer

- Specialized in Railway Maintenance Product Division to design and develop quick clamp for lubrication bars to be used in railroad industry applications
  - Followed ISO 9001 standards and procedures for new product design and documentation
- Collaborated with senior engineers to research, design, and develop a new lubrication bar for Top-Of-Rail lubrication
  - Specified materials and design provisions for new concept
  - Oversaw manufacturing processes while consulting with various vendors for optimal quotes
  - Developed test procedure and managed field testing of original prototypes

## Computer Skills

Pro/ENGINEER, SolidWorks, ANSYS, AutoCAD, MS Outlook, MS Excel, MS Word

## Achievements and Activities

Eagle Scout, Boy Scout Troop 186

Coauthor of Patents for TOR foam bar, Hinged Clamp, and Wiping Bar Quick Clamp through Portec Rail Products  
President, Society of Automotive Engineers Club – Two consecutive years

References Available Upon Request