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Lyndsey M. Waters

801 Florence Street
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La Belle, PA 15450

Education:

Pennsylvania State University, University Park, PA
Major: B.S. Industrial and Manufacturing Engineering

Completion Date: December 2005

Relevant Work Experience:

Pennsylvania Department of Transportation

Summers of 2002-2005

Uniontown, PA District Headquarters

- Collaborated frequently with engineers; assisted in project completion and planning
- Acted as an inspector for roadway reconstruction projects
- Assisted in safety initiatives for snow removal, sign placement, and line painting
- Worked with roadside management on beautification projects
- Estimated tonnage for reconstruction projects
- Assisted in the preparation of the maintenance budget-allotting money to various phases
- Helped with a business plan for the counties' cost estimates
- Performed roadway surveys for weight restrictions and damaged sections

FEF Metal Casting Conference Student Delegate, Chicago IL

Fall 2005

- Selected as one out of five student delegates from Penn State for the Metal Casting Conference
- Spent three days in Chicago attending professional manufacturing speeches and activities
- Selected to have dinner and roundtable discussions with managers from General Motors and Ashland Specialty Chemical

IE Senior Projects, University Park

Safety Systems Inspection and Recommendation

Fall 2005

- Performed building inspections, acquired knowledge of OSHA Standards, Accident Causation and Failure Modes Effects Analysis(FMEA)

Manufacturing Systems Design

Fall 2005

- implemented Lean Manufacturing methods such as Kaizen, rapid setup, waste elimination, 5S, pull scheduling (JIT), resource management and value stream mapping that reduced time to market, increased quality and reduced cost

Metal Casting Design

Spring 2005

- Successfully designed (AutoCAD, Pro Engineer), modeled (Rapid Prototyping) and manufactured a brass Penn State door knocker in the PSU foundry

Six Sigma Design

Spring 2005

- Acquired extensive information on the six sigma methodologies including the ability to understand and apply ideas, procedures, formulas, principles, descriptions, tables, diagrams, etc. for quality enhancement and waste reduction

Computer Skills:

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|--------------------------|-------------------|--------------|----------------|
| • Solid cast | • CNC Programming | • Minitab | • Pro Engineer |
| • Microsoft Office Suite | • Auto CAD | • Master cam | • Robot Studio |
| | • C++ Programming | • Arena | |

Related Courses:

Engineering Mechanics
Linear Programming
Operations Research

Quality Control & Reliability
Advanced Metal Casting
Productivity & Safety

Engineering Design & Graphics
Concurrent Engineering
Manufacturing Systems