

**John D. Riedeman**  
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Jackson, MI 49201  
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## Experience

### **Jackson Area Career Center**

Engineering Instructor / Project Lead the Way (PLTW)

July 2010 – Present

Responsibilities Include:

- Digital Electronics Instructor for the first semester classes.
- Engineering Design and Development Instructor for the second semester classes.
- Responsible for purchasing the PLTW supplies for nine schools in Jackson County.
- Responsible for community engineering contacts resulting in co-ops for students and establishing direction of the program.
- Mentor for FIRST Robotics Competition Team 2611, the Jacktown Vectors.

### **Adco Products, Inc.**

Project Engineer

Michigan Center, MI

March 2005 – July 2010

Responsibilities Included:

- Engineering lead for a \$1M project to consolidate separate locations of adhesive manufacturing and adhesive cartridge packaging in Chagrin Falls, OH, resulting in a annual savings of \$475K.
- Engineering lead for a \$500K project to eliminate a 220,000 sq ft finished goods warehouse. This project entailed a complete redesign of 120,000 sq ft of raw material storage warehouse, while in operation, to incorporate all finished goods storage and shipping logistics. The project resulted in a \$250,000 labor savings and contributed to a reduction of overall inventory from \$9M to <\$6M in the Michigan Center facility.
- Worked with the Engineering Manager, Plant Manager, and Director of Operations to set priorities and budgeting of capital investment for the facility.
- Installed PLC's on an existing processes. The PLC's made the processes semi-automatic (oil adds, dumping, mix time).
- Key member in QS9000, ISO14001, Lean manufacturing, and FMEA teams.
- Provide AutoCad prints for all three ADCO Products manufacturing facilities in North America.
- Direct the facility tool room in designing and fabricating machine components to support SMED extrusion line projects.
- Operations improvement projects include relocating small packaging production lines, seal improvements for hot oil pumps and the installation of a carbon black super sack handling system.
- Maintenance engineering support projects include agitation shaft packing gland improvements for Werner & Pfleiderer 1,200 gal horizontal sigma blade mixers. Gearbox and tilt system improvements for Baker Perkins double arm mixers.
- Organized and led maintenance and outside vendors to fix MIOSHA safety issues. .

### **Ford Motor Company**     *Automatic Transmission Engineering Operations*     June 1995 – March 2005

6R60 Transmission Assembly Process Engineer     Livonia, MI

May 2003 – March 2005

Responsibilities Included:

- Develop the process of assembling the 6R60 transmission at an effective rate of 120 jobs per hour within a budget of \$22.97M, a job #1 of June 2005, and a hours per unit goal of 3.0 at the Livonia Michigan transmission plant.
- Writing and upkeeping the assembly process sheets, dynamic control plans, and process FMEA's.
- Selection of machine tool builder, procurement of the assembly line, and management of the installation while keeping the project on time and under budget.
- Management and development of the equipment verification plans, which ensure that the machines are runoff at the vendor site and in plant to meet equipment performance and part quality specifications.
- Machine drawing approval and verification from the design phase to the installation phase that the new equipment meets all the plant and division health and safety requirements, reliability and maintainability targets, controls specifications, cycle time targets, and uptime requirements.
- Lead the manual station layout reviews involving material control, ergonomics, productivity engineers, and hourly techs which set up the material flow through the assembly line.
- Worked closely with the productivity engineer and hourly techs to use MODAPTS. This paper exercise broke down the cycle time of the manual operations into simple work elements and determined the loading of the assemblers. Then the manual operations were rebalanced according to the workload and process requirements. At the machine tryout and installation phase the cycle times were verified and the line was again rebalanced.
- Lead ergonomic reviews of the manual and auto stations at the drawing approval phase to ensure all specifications and requirements are met.

5R110W Transmission Lead Assembly Engineer Livonia, MI Nov. 1999 – May 2003

Responsibilities Included:

- Liaison to product engineering that ensured an assembly feasible transmission was designed. Worked with product to design poke-yoke for model complexity and part orientation.
- Developed the process of assembling the 5R110W trans. at an effective rate of 136 jobs per hour with an existing 4R100 assembly line that had an effective rate of 56 jobs per hour in the Sharonville, Ohio trans. plant
- Selected machine tool vendor and procured the equipment needed to retool the transmission assembly line with an authorized \$22.4M and a Job #1 of 9/16/02
- Developed, obtained management approval, and implemented a plan to save \$8M by not retooling an older line. This was done by increasing the jobs per hour from 108 to 136 on the first line to be retooled, which made up for the volume that the older line needed to run. The older line's floorspace was then made available for new product coming into the plant.
- Formed and updated the assembly Risk and Opportunity list to keep the project under budget.
- Lead critiques of the process with the Sharonville Plant and implemented changes needed by the plant
- Coordinated and led a team of manufacturing and product engineers to write the Process FMEA
- Completed the APQP, PTPRP deliverables, and the Process Verification Manual deliverables
- Communicated design related quality issues to product engineering and tracked to completion.
- Developed a Pass Through Characteristic matrix to determine which characteristics could go to the customer and implemented fixes both at component suppliers and in house, which prevented warranty claims.

5R55N Transmission Assembly Process Engineer Sharonville, OH Sept. 1998 – Nov. 1999

Responsibilities included:

- Implementation and launch of the Jaguar S-type 5R55N transmission assembly line into an existing line.
- Equipment Installation (installed 4 new stations)
- Debug of existing equipment to increase First Time Throughput from 90% to 99%
- Ensured that the assembly line met the Ford FPDS checkpoint deliverables

4R70W Clutch Assembly Process Engineer Sharonville, OH June 1997 - Sept. 1998

Job Role included:

- Developing of processes and control of Dynamic Control Planning and ISO 9000 documentation
- Coordinated preventative maintenance scheduling
- Approving and implementing product changes that affect the assembly process.
- Upgrading production (i.e. First Time Through, Ford Production System, Cost and Profit Improvement Program)
- Maintenance support with troubleshooting
- Relaunched two departments with all new techs after being shut down for four months. Taught the new techs the machine function, and part characteristics. This enabled them to run the business as their own. The resulting process improvements showed an 85% increase in Jobs Per Hour and 16% decrease in headcount for one dept. While the second department showed a 29% increase in JPH and a 35% decrease in headcount .

Ford College Graduate Program June 1995 – June 1997

- Field Service Engineer Dearborn, MI  
Assisted dealerships in resolving warranty concerns, Aided technicians in the Quality Focus Test Fleet garage in diagnosis of concerns, Member of program activity team to determine root cause of an engine quality issue.
- Transmission Assembly Process Engineer Livonia, MI  
Coordinated part submission warrant functional runs, design FMEAs, and productivity improvement meetings
- Product Design Livonia, MI  
Member of investigative team for transmission quality issue, Analyzed durability teardowns on prototype transmissions, Member of 1997 model year F-150 launch team at Kansas City Assembly Plant.
- Production Supervisor Sharonville, OH
- Machining Process Engineer Livonia, MI  
Developed a manpower reduction cost savings project, Maintained process sheets and dynamic control plans, Performed gage R&R's and updated the gages throughout several departments

## Skills

- Six Sigma green belt certified
- Proficient in Excel, Word, AutoCad, Powerpoint, Microsoft Project, Autodesk Inventor, National Instruments Multisim
- Familiar with MasterCAM, Solidworks, Fanuc, Kuka, and ABB Robotic Programming, and NI Labview
- Project Management Training
- Completed 72 hour Lean Champion Training through the Michigan Manufacturing Technology Center
- Full understanding of ISO 14001 and QS 9000
- Team leader in Failure Modes Effects Analysis
- HAZWOPER (Hazardous Waste Operations and Emergency Response Standard) first responder certification

## Education

**Currently attending Western Michigan University**, Kalamazoo, MI

- Enrolled in the Master of Arts in Career and Technical Education Program

**Rose-Hulman Institute of Technology**, Terre Haute, IN.

- Bachelor of Science in Mechanical Engineering (BSME), minor in Economics
- 3.5 GPA, 1995 Cum Laude
- Member and officer of Lambda Chi Alpha social fraternity

## Interests

Cascades Cycling Club, League of American Bicyclist Certified Cycling Instructor, Snow Skiing, Working on my Father's farm in Greensburg, Indiana, sailing, and most importantly my two daughters, aged eleven and seven.