**James Rice**

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I am a highly motivated individual who thrives on new challenges. I am a dependable and committed to the company I am working for. I am looking for an Engineering Role at which I can apply my past Robotics or machining experience through hands on or leading people.

***Summary of Skills***

* G code and M code programming
* Working knowledge of machine tools made by Okuma, Mazak, Gleason, Makino and Weldon
* Working knowledge of Fanuc robots
* Six Sigma Green Belt
* Proficient with Atlas Copco DC Tools
* Proficient with AutoCAD and Pro-E
* Familiar with GD & T dimensioning
* Experienced at print reading
* Familiar with 5S
* Been involved with 8D’s
* Familiar with Allen Bradley PLC ladder logic
* Understand process capability (cpk) Some use with Minitab
* Involved and familiar with process FMEA’s
* Traveled to various machine run-offs for capital equipment purchases.
* Installed several IR 2D vision systems
* Experienced With Fanuc Robotics DCS
* Program and Maintain Robotic Welders

***Work Experience:***

**Eaton Corporation, Shenandoah, Iowa**

***Manufacturing Engineer (Master Technician) – 2010 to Present***

Responsible for CNC programming of various Mazak, and Okuma lathes as well as supporting the programming for our post heat operations on OD and ID grinders. In addition, I was the lead engineer for machining cells with automated part handling where my responsibilities included.

* Ensure robotic cells are functioning properly (Fanuc Robots)
* Create new and back up robot programs for current and new product
* Repair and maintain end of arm tooling on all Manufacturing robots
* Evaluate processes for setting up new parts not normally ran in automated cells
* Set up vision systems for improved quality control (IR vision)
* Create and maintain CNC programs for lathes and machine centers
* Create and update processing for part manufacturing
* Trial tooling and work with tooling suppliers
* Capability studies
* Complete first Part dimensional for PPAP approval
* Address any Ergonomic issues
* Identify and drive cost out opportunities
* Currently helping back in the Grey Iron department completing programs for new parts and first part dimensional to submit for PPAP
* Many other activities

***Manufacturing Engineer, Assembly – 2007 to 2010***

I was the acting Engineer for the Automated Assembly Line in the Shenandoah facility. The line was used to assemble various models of heavy duty truck transmissions. 10 speed, 13 speed, and 18 speed. The line consisted of a monorail “J” hook system that the transmissions were suspended from and used to transfer from various stations throughout the assembly process.

Major Responsibilities:

• Ensure the line is capable and tooled up for new models or new features

• Maintain existing tooling used throughout the line

• Implement and program Atlas Copco DC torque tools for existing and new applications

• Implement Poke Yokes for high risk processes in the assembly process

• Install new equipment as needed

• Perform line balance studies for increased through put and better flow

• Trial new models and address any issues

• Incorporate new ideas and tooling for improved ergonomics

***Manufacturing Engineer, Grey Iron– 2001 to 2007***

Filled the role as the acting Engineer for the Grey Iron machining department. The department consisted of 54 horizontal Cincinnati Maxim Machine Centers. Machined various components used on heavy duty truck transmissions such as the main Case, Rear plate, shift bar housings and Bell housings.

Major Responsibilities:

• Create CNC programs for new parts and modifications to current parts

• Modify and maintain fixtures as needed.

• Determined tooling to be used for specific process

• Trial new tooling working with external tool suppliers

• Prove out new programs

• Run parts for PPAP submission on new product or changes to existing products

• Address issues that come up with current process creating scrap

• Identify and implement cost out opportunities

• Complete processing to be used for our manufacturing processes

• Trouble shoot any machine issues

• Dial in fixtures on new set up or recovery after a machine crash

• Incorporate and ensure all gaging is in place and available for parts being produced

• Complete capability studies

• Worked with our customers internal and external to address any quality issues

***Tool Designer, 1998 to 2001***

General fixture and gaging design using various forms of software such as Pro-Engineer (3D modeling software and Autocad

***Various Projects:***

* **Cost out Grey Iron –** while in Grey Iron implemented new milling process cutting down cycle time, increased tool life, and improved quality leading to **$68k**
* **Cost out Assembly–** Implemented new test stand fixturing for quicker change over times and improved through put for savings of roughly **$45k**
* **Cost out Steel –** Implemented new fixtures that we could print on our 3D printer to adapt to our current part carriers on our automated countershaft grinding cell allowing use to run Aux countershafts in the same cell. **$75k**
* **Various other cost out projects**

***Automation Projects:***

* Currently have 24 automated part handling cells. Most of which consist of approximately 3 to 4 machines being tended by a Fanuc robot with Schunk end of arm tooling.
* I was heavily involved with the installation of 20 of the 24 cells.
* I maintain and ensure we have back- ups of all cells
* I have written various programs for new part, new processes, and written programs for complete cells that were originally manual cells
* Installed DCS in various cells that didn’t originally have DCS.
* I set up 2D vision systems in various cells that didn’t originally have vision but was need to reduce quality issues.
* I have completed 3 week long classes at the Fanuc Robotics division headquarters in Detroit. (2D vision, End of Arm Tooling, and Advanced programming)
* I have implemented new fixturing in our robotics weld cell that was required because of ergonomic issues as well as completing all Robotics Programming.
* Have completed various maintenance updates to cells that required it
* Have been heavily involved in the cell layout and design of all Automated cells for capital purchase
* Have taken previously installed Robotic programs and made process changes to the programs to reduce cycle time and improve through put.
* Used Roboguide software to create new programs and evaluate current programs

***Education:***

* Structural Engineering Technical Degree from South Western Community College in Creston Iowa
* While at Eaton Corporation I began taking classes through Bellevue University towards a bachelor’s of Business. I was at the point of taking the 9 moth accelerated course but quit taking classes due to Eaton putting a Cap on what they would pay.