Candidate Profile

Submitted to: Victoria Ferguson, Marian, Inc.
Date: Friday, August 16, 2013

General Information:

Candidate	Jeff Peterson	**Benefits**	Company Plan
Submitted for	Mechanical Engineer	**401K**	Company Plan
Expected Salary	$65,000	**Vacation**	Company Plan

Qualification Matching Grid

Education	• Associate of Science in Biomedical Engineering Technology - Purdue University, Indianapolis, IN
Engineering Experience	• Analyzed automated machinery and designed components to enhance performance • Experience with tool and gage design for automated machinery including components and jigs • Successfully met design specification project requirements and customer expectations • Developed BOM of purchased and manufactured parts and worked with GD&T of specified components
Manufacturing Experience	• Improved the manufacturing process and increased production efficiency by implementing lean manufacturing procedures • Conducted product safety verifications: environmental tests, wear tests, strength tests and dynamic sled tests • Coordinated with project engineers and ensured timely project completion • Experience as an ISO 9001 Auditor

Software experience	• CAD:
	  ○ SDRC I-deas – 6 years for design and 3D modeling
	  ○ AutoCAD Inventor – 5 years for 3D models and 2D drawings
	• Microsoft Office suite

Motivations for making the change:

Jeff is actively seeking a direct-hire engineering opportunity. Jeff began his career as a Design Engineer with Precision Plastics. After 5 years he was laid off and began working contract positions in the automotive, automation and medical supply industries. In 2011 he completed his AS degree in Biomedical Engineering Technology. With over 20 years of experience in 3D design & drafting, engineering, industrial manufacturing, industrial tooling and the repair of machine components, Jeff is very interested in the Mechanical Engineering position with Marian, Inc and is confident he would be an immediate contributor to the team.

Availability to interview:

Jeff can be available to interview with a 24 to 48 hour notice.

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Specific interview questions:

Please describe your most successful experience designing and building ergonomically safe and effective mechanical devices or machines for a production environment. Describe in detail what the project involved, your part in the design process, and the end results.
"At Keihin I worked on calibrating an engine component test machine so that it matched the results of the Japanese version of the same machine.

At IMMI (1984-1997) while working in R&D I was responsible to make sure the components met FMVSS 209 and 302 safety standards. Verifications included environmental test, wear tests, strength tests and finally dynamic sled tests. Some of the tests require new test machines to be designed from scratch and then technicians trained in the safe operation of the new test device." – *Jeff Peterson*

Describe any experiences you have had working with AutoCAD, Solidworks, 3-D Modeling, Design for Capabilities and OSHA standards. Provide details for any/all of the above including years of experience and project work completed.
"I started using SDRC I-deas in 1992 creating 3D and 2D files for the automotive and manufacturing industries. I used the surfacing components extensively when modeling automotive dashboard components; I used SDRC through the NX transition. Currently I use AutoCAD Inventor 2014 and Mechanical Desktop 2014. I have not had the opportunity to use CATIA but with my high end automotive CAD experience with surfacing I'm sure I can learn CATIA very quickly." – *Jeff Peterson*

What is the most innovative thing you have done in your current or most recent job? Why is it the most significant? What results and impact did it have on your team or organization (either positive or negative)?
"I came up with a test method to measure the breakaway force for a new product. The Japanese wanted to know date quickly so the ease of manufacture of gage was critical and it had to use on site measurement equipment. I designed the gage and it was accepted by the Japanese and the data was accepted and the unit was able to be shipped to customer."
– *Jeff Peterson*

Talk about one of the most successful experiences you have had working as a mechanical engineer. Describe in detail what the project involved, your role in the project and what the end result was.
"I made a Mobil setup gage for the tube bending CNC's it would be a pass fail check for 1 st piece inspection. I saved time by not going back and forth to CMM. I designed, and build the gage and it saved on average 15 minutes from the new job set up time." – *Jeff Peterson*

Give me an example of a project that best describes your organizational skills. What was the project? How did you establish a time line? What steps did you take when an unforeseen issue developed? Were you able to complete the project and meet your deadline?
"I am currently part of the Keihin "Rapid Improvement team" We respond to issues throughout the plant where ever there is a production challenge. We evaluate the situation then come up with a solution. I design new tooling, create drawings, get those quoted and sourced and then produced. When the components come in we install the new tooling and verify that it resolves the production challenge. We have been instrumental in increasing production and reducing scrap throughout the plant since we formed the Rapid Improvement team in 2012." – *Jeff Peterson*

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Jeff Peterson

PROFESSIONAL SUMMARY

Forward-thinking professional offering knowledge of Automotive plastic and steel components, medical equipment and device repair plus more than 20 years of experience in 3D design/drafting engineering, industrial manufacturing, and installation of industrial tooling and repair of machine components, complemented with hands-on skills in quality control. Creative and quality-focused with comprehensive background in test and verification of component assembly along with implementing lean manufacturing process. Collaborative and proven efficient in building machines from conceptualization to successful completion. I am armed with strong troubleshooting skills and aptitude in diagnosing mechanical and electrical issues, coupled with dedication in maintaining excellent customer service.

AREAS OF EXPERTISE

AS in Biomedical Engineering Technology
Tooling, Fixture, Gage Design
Plastic/Steel Part Design/Drafting W GD&T
Quality Control
Lean Methodology
Customer Service
Project Planning And Development
Prioritization Of Tasks
Vendor Selection
Process Development
Personnel Training
Instruction Sheet Development
Failure Mode Effects Analysis (FMEA)
20 Years 3d Cad Experience

TECHNICAL SKILLS

Microsoft Office Suite ▪ AutoCAD Inventor 2013, Solid Edge, Solidworks, SDRC I-DEAS NX 11, Pro E and Unigraphics NX ▪ Software Packages: Multisim, Ultiboard, and MATLAB ▪ ISO 9001 Experience and ISO 9001 Auditor ▪ Automotive recycling systems and RFID/RTLS Systems

PROFESSIONAL EXPERIENCE

Keihin North America—Greenfield, IN
Project Engineer (contract position) April 2012–Present

- Perform analysis of automated machinery and design components to enhance performance
- Calibrate oil pressure test machine to comply with home company's data collection.
- Design gages and tooling for automated assembly lines.
- Aid in the redesign of automotive fuel management systems
- Extensive use of AutoCAD Inventor 2013 to design new machines and components.
- Design new automation machines to automate automotive component assembly
- Create machine BOM's and assembly drawings.

IU Health—Indianapolis, IN
BMET 1 (contract position) June 2011–April 2012

- Perform Preventative Maintenance and fix IV pumps, PCA pumps, SCD, feeding pumps and pathology lab equipment.
- Ensure proper calibration of medical equipment and carry out necessary repairs
- Overhaul and rebuild equipment

St. Vincent Hospital—Indianapolis, IN
BMET Intern Jan 2011–May 2011

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- Troubleshoot and fix IV pumps as well as conduct studies and research on equipment manuals and communicate with technical support
- Ensure proper calibration of medical equipment and carry out necessary repairs
- Overhaul and rebuild equipment with broken cases

ATK Launch Systems—Brigham City, UT
Design Engineer (contract position) 2007–2008

- Checked and ensured that drawing dimensions meet model dimensions and are per ASME Y14.41 3.3.2 and 3.1.1
- Confirmed if solids were closed and were given with appropriate material density
- Organized models and assemblies, ensuring accuracy in part number and revision
- Updated models and identified bad nodes
- Supported other preparers, modeler, and designers as necessary
- Enabled monitoring of skin stressed during launch through the design of sensor assemblies attached to the rocket motor outer skin

Whitley Products—Plymouth, IN
Design Engineer (direct position) 2006–2007

- Developed tube assemblies and adjusted tube routing
- Customized brazing fixtures and gages; tested fixture through AutoCAD Inventor and SDRC I-DEAS
- Improved the manufacturing process and increased production efficiency by implementing lean manufacturing procedures
- Designed 3D models and 2D drawings of fixtures and gages for tool room shops by using SDRC i-deas, AutoCAD Inventor 2007, and Pro-E
- Reduced time in setting up a CNC tube bender by 30 minutes through the successful design of a universal tube gage fixture
- Set up company processes to export product to Germany. Specified cardboard, skid material, skid size, skid packing and other export law compliance.
- Worked with Germany automotive company so that we were in compliance with the European Unions End of Life Vehicles Directive 2000/53/EC for recycling

Global Tool and Automation Corp.—Fort Wayne, IN
Design Engineer/Machine Designer (contract position) 2006

- Architected detailed tests and production machines along with their components using AutoCAD Inventor
- Drafted designs from scratch and based on the Sales Department's input
- Specified components for use as well as formed 3D models and 2D drawings with GD&T
- Successfully developed a BOM of purchased and manufactured parts
- Created a test fixture to test the casting porosity for Dana Gear

Design Facts—Fort Wayne, IN
Design Engineer/Machine Designer (contract position) 2005

- Worked for a custom machine building company and developed detailed machine components for automation and product assembly machines using AutoCAD Mechanical Desktop 2006 and AutoCAD Inventor
- Ensured that design specifications were achieved based on project requirements and customer expectations
- Created 3D models and 2D drawings with GD&T; identified components that would be used and assisted in building machines
- Optimized the design of an assembly line for Yankee Candle to enable the production of new double sent misters

Wabash Technologies—Huntington, IN
Design Engineer (contract position) 2004–2005

- Developed product designs for a major sensor company

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- Coordinated with project engineers and ensured timely project completion for crank position and fuel injection sensors
- Created 3D models in SDRC I-DEAS NX, as well as designed tooling components and jigs
- Enhanced assembly procedures and eliminated cable assembly by working on an electronic throttle control for motorcycles

Precision Plastics—Columbia City, IN
Design Engineer (direct position) 1999–2004

- Functioned as one of the only two mold designers and IT technologists
- Accomplished a broad array of responsibilities and was recognized as a design "Jack of all trades"
- Liaised between customers from initial concept and design of model, injection molds, CAM, and quality assurance through project delivery and after-sale feedback
- Developed tooling design and assisted customers with design of models, plastic injection molds, and SDRC
- Customized 2D drawings with GD&T of the tool components for in-house tool shop
- Achieved design requirements and checked for possible interference while creating complete mold in SDRC 3D
- Streamlined design and engineering functions through successful design of a robotic head to pick parts into mold
- Significantly reduced cost for the company by initiating the usage of plastics for mold and design parts
- Convert Pro-E models to SDRC i-deas models
- Automotive component and mold design

EDUCATION AND CREDENTIALS

(AS) Associate of Science in Biomedical Engineering Technology (2009–2011)
Purdue University—Indianapolis, IN

Covidien Certificate of Completion:
"Fire Prevention and Safety During Surgical Procedures"
"Electro surgery Continuing Education Module

AFFILIATIONS

Indiana Biomedical Society (2009–Present)
Association for the Advancement of Medical Instrumentation (AAMI) (2009)

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