Michael E. Hoffmann
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Objective:

To work for a racing organization in which I can apply my NX cad/cam and manufacturing expertise and experience to facilitate performance gains.

Work Experience:

Joe Gibbs Racing July 2007-October 2008

Huntersville, N.C. 28078

Engine Department CNC programmer:

Create solid models of intake manifolds using free-form modeling techniques in NX5 CAD/CAM software.

Source prototype manifolds to vendors for creation of manifolds that can be run on the dynamometer.

Make adjustments to the solid models of the manifolds to improve and or change power curves and fuel distribution.

Create 5-axis CNC programs to machine manifolds.

Assist the CNC department in managing high programming work loads.

Assist the Engineering department by creating solid models and drawings.

Assist fellow Manufacturing Engineers in the selection and implementation of new manufacturing processes.

Teach Manufacturing Engineers fundamental CNC programming techniques.

Prove CNC programs using CGtech Vericut 6.1.2 verification software.

Equipment Programmed

Doosan 3, 4, and 5 axis milling machines that are equipped with Fanuc controls.

Boston Gear 2004-2007

Charlotte, N.C. 28216

Manufacturing Engineer/ CNC programmer:

Support the Manufacturing Department of a multi-machine manufacturing facility through the creation of CNC programs using Unigraphics NX2 CAD/CAM software.

Develop custom UG/Open Grip programs using NX2 software.

Design and draft assembly fixtures and gages using NX2 software.

Maintain the plant's DNC computer system.

ISO 9001:2000 Internal Auditor

Equipment Programmed

Daewoo 400HC horizontal CNC milling machine, Daewoo 240A CNC lathe, Daewoo 240B CNC lathe, Haas vertical CNC milling machine, Fadal vertical CNC milling machine, Kira vertical CNC milling machine, Cincinnati vertical CNC milling machine, Okuma single and twin spindle CNC lathes, Mori-Seiki single and twin spindle CNC lathes,

Sandvik Coromant Inc. 2000-2004

Mebane, N.C. 27302

Design Engineer/CNC Programmer

Responsibilities include the creation of CNC programs for the production of custom designed metalworking tooling using *Unigraphics V18 CAD/CAM* software package. Design production fixtures. Advise fellow Design Engineers on the feasibility of their tooling designs. Assist other CNC programmers in the creation of CNC programs. Develop process improvements by implementing new products into the production methods.

Equipment Programmed

Matsuura 800 vertical 5-axis CNC milling machine, Matsuura 900 horizontal 5-axis CNC milling machine, Sajo HMC 50 horizontal 5-axis CNC milling machine, Agie wire edm.

Ericsson Inc. 1996-2000

Rtp, N.C. 27709

Prototype Engineer:

Responsibilities included the production of engineering prototype models by generating CNC machine programs using *Unigraphics V15.03CAD/CAM* software. Various molding and casting methods used to produce prototypes of cellular phones and corresponding accessories. Design and fabrication of fixtures for various laboratories also performed. Prototype models were used for sales presentations and design verification.

Equipment experience

Matsuura 510 5-axis CNC milling machine, Mori-Seiki CNC lathe, Herbert Walter sinker EDM, Hurco Hawk5 CNC milling machine and Hardinge toolroom lathe.

Kennametal Inc. 1990-1996

Raleigh, N.C. 27612

CAD Designer II:

Responsibilities include the development of p*arametric 3D solid models* of metalworking inserts and manufacturing drawings using ***Unigraphics V10.52*** and ***V11.12*** software. Perform quality assurance checks on Kennametal standard products and reverse engineering of competitors products through the use of an L.S. Starrett CMM equipped with EMD ***Sceptre*** scanning software.

Test Laboratory Technician II:

Responsibilities included the testing of various performance parameters of new products and technologies produced by Kennametal and its competitors in conjunction with the Engineering and Technology Departments. Assist Engineers in analyzing failure modes in quality audits. Research new manufacturing methods for contracted clients (i.e. General Motors Hydramatic Transmission Division, TRW Engine Components, and Consolidated Diesel Corp.) Aid in the visual presentation of new products and manufacturing processes to Kennametal sales personnel, customer engineers and purchasing agents utilizing CNC machinery and testing equipment.

Equipment experience:

Warner & Swasey Titian Medium 2 axis Universal CNC lathe with Fanuc 10T control, Kearney & Trecker Data-Mill 700 CNC vertical milling machine, Jones & Lamson TNC 312 Universal CNC lathe with Bendix control, L.S. Starrett CMM model RMS 1620-12 with Sceptre scanning software, Antonik hardness tester model ADT-8, and Tokyo Seimitsu surface finisher analyzer.

Micron Instruments Inc. 1986-1990
Ronkonkoma, N.Y. **Toolmaker/CNC machinist**

JRS Precision 1986
Ronkonkoma, N.Y. **CNC Programmer/machinist**

CPC Engraving 1983-1986
Ronkonkoma, N.Y. **CNC machinist**

Education:

- **N.C. State University**
  Raleigh, N.C.
  College of Engineering - Mechanical Engineering Spring Semester 1993,1998; Summer 1998
- **EDS Unigraphics Solutions**
- **Attended 328 hours of formal off-site training at EDS training facilities.**
- **Connetquot Senior High School 1983 Bohemia, N.Y. 11716**
  New York State Regents High School Diploma

Extracurricular activities:

- Former member of the Sceptre CMM software users group.
- Co-chaired Sceptre Users Group meeting; October, 1995

Additional training:

- Microsoft Project 2003: March 2007
- Iso 9001:2000 Internal Auditing; November 2006
- Fundamentals In Injection Mold Design; October, 1998
- Injection Mold Maintenance; October, 1998
- How to Think Outside the Box - SkillPath Seminars
- MS Windows Intro. - Productivity Point International
- MS Word Beginner - Productivity Point International
- MS Word Intermediate - Productivity Point International
- MS Excel Intermediate - Productivity Point International
- MS Windows '95 Intro. - Productivity Point International
- MS PowerPoint Intro. - Productivity Point International

Community activities:

- Former President of Home Owners Association

Interests and activities:

Automobiles, auto mechanics, sports and traveling.

References:

Available upon request