Josh Dingus

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SENIOR MANUFACTURING ENGINEER

Manufacturing professional with a passion for solving problems and always finding a better way. My resourcefulness and tenacity along with my industry knowledge and technical ability allow me to excel in CNC manufacturing.

▪CNC Machining	▪GD&T	▪Leader
▪ISO/TS 16949	▪Six Sigma	▪ERP Software
▪CAD/CAM	▪New Product Development	▪PFMEA
▪Project Management	▪Advanced CNC Programming	▪Fixture Design
▪Lean Manufacturing	▪CNC Probing	▪Process Development

Professional Experience

June 12–Present : Busche Enterprise –Sr. Manufacturing Engineer-Albion, IN
Fast paced high volume, high precision machine shop with customers in the automotive, heavy truck, agricultural, and durable goods industries.

- Recipient of 2012 Innovation Award for Busche.
- Saved $16k on a turn key implementation of a probing process. Eliminated need for outsource.
- Implemented an advanced safety CNC program which detects machine restarts and forces operator to initiate safe restart practices. Est. $100k+ /yr savings on the company's 200+ CNC's.
- Developed a probing setup process for (8) 5-axis Variaxis machining centers which reduced setup time from 2 weeks/machine to 2 days, without this compressed implementation would not have met model year changeover timing for the Dodge Dart Control Arm.
- Developed computer programs to automate CNC program generation in regard to error proofing tool heights and fixture offsets. Hundreds of man hours saved and minimized the possibility of human error during the development of these CNC programs.
- Eliminated recurring quality issue with slugs caught in parts. Developed tool to helically interpolate which prevented the slug from being created and eliminated the issue.
- Implemented process change on a CAT bearing cap which improved Cpk from 0.6 to 2.0
- Implemented poke yoke on CNC process preventing (2) previous machine crashes from re-occuring ($40k in damage)
- Spearheaded the testing and implementation of in house Renishaw Ball Bar Testing
- PPAP'd on average (3) new product launches per month.

Oct 10–June 12 : Fulton Industries –Manufacturing Engineer-Rochester, IN
CAT supplier specializing in the machining of large complex castings for diesel engines. Brought in to implement quality improvements and strengthen CNC programming knowledge in the company.
Developed capable processes for many of the most challenging product lines.

- Implemented key machining methodology on a timing housing and machined parts to blueprint for the first time in 5+ years since product launch.
- Lead initiative to implement legacy quality system not being utilized (MQ1)
- During 1 yr period without an Engineering manager I identified and stepped into areas of responsibility not being filled in the area of new product development and process development.
- Developed a lead role working with CMM programmers to help bridge the gap that existed with Manufacturing and the Quality Department.
- Successfully launched major re-design of a key product line covering 5 of the highest revenue parts in the shop. Worked under extreme pressures and a compressed timeframe.
- Lead and developed new pre-qualifying machining process for the C175 Oil pan family. Within 2 weeks of launch cell had highest throughput since launch 2 years prior. Probing process with integrated error catching routines has operated flawlessly since implemented.

Sept 09–Oct 10 : Conn-Selmer Corp.-Manufacturing Engineer-Elkhart, IN
Manufacturing Engineer for the largest musical instrument manufacturer in the U.S.

- Successfully launched new clarinet model on time and stabilized manufacturing processes.
- Headed up a $60k capital project involving specifying and purchasing the companies first CMM. Implemented modular fixturing system and methods and procedures for controlling CMM related documents.Became proficient with CMM software on a compressed timeframe to meet a deadline.
- Identified need for and recruited, electrician with CNC maintenance expertise. Savings from previous year over $100k in outsourced service work.
- Headed up $30k capital project on purchase of (2) Brother CNC machines. Negotiated exceptional price and headed up refurbishment of the machines to like new condition.
- Implemented a CNC reaming process to replace manual reaming on the ID bore of the clarinets. Decreased scrap by 20%, eliminated reaming as a bottleneck and became first wooden clarinet in the industry to not require sanding of the ID bore as a finishing operation.

May 09–Sept 09 : General Products Corporation-Manufacturing Engineer-Russellville, KY
Transferred to KY plant after relocation of all Eaton transmission components to KY facility.

- Successfully PPAP'd 10+ part numbers in a compressed timeframe, not only responsible for tooling, fixturing and programming but also all required PPAP documentation and gaging
- Identified cost save which decreased changeover time by 50% on the Clutch Housing cell.
- Auditing and revising of process control documents per ISO/TS 16949 standards

Sept 01–Dec 08 : General Products Corporation-Manufacturing Engineer-Angola, IN
Cradle to grave responsibility of precision CNC machined components to the automotive, heavy truck and aerospace industries.

- Successful in meeting all AOP product line metrics during my tenure: perishable/durable tool cost, OEE measurables and less than 1% scrap rates/ Implemented many successful cost reduction plans
- Served as cross function team member of largest simultaneous launch in company history, with line responsibilities for two out of 4 new product lines involving $12M in flexible machining cells including automated FMS systems
- Implemented design change of a transmission extension housing to remedy #1 quality issue regarding assembled rubber grommet retention/ Pioneered use of form endmill to interpolate bore creating a "barbed" profile and increasing holding force 600% / Zero defects two years post change and since recognized for quality excellence by Chrysler
- Created advanced CNC program utilizing nested macro B subroutines to engrave part traceability information during machining cycle / Eliminated #1 quality issue with Eaton product / Has become a standard for all General Products engraving systems
- Coordinated successful relocation of $4M of capital to startup KY facility / Created cell layouts, ordered gaging and tooling, trained personnel and qualified the machining processes

Summer 98,99,00: Amcast Industrial Corporation-Process Engineering Intern- Fremont, IN
Worked under the engineering manager and performed AutoCAD layouts, cycle time studies and other QS9000 related items / Oversaw implementation of a DNC networking project which involved the linking of 30+ CNC lathes to a centralized server

Summary of Qualification

NC Controls: Fanuc, Mazatrol, Mitsubishi, Allen Bradley, Yasnak, Anilam, Haas, Fadal, Okuma

Machine Tool Brands: Okuma, Mori Seiki, Mazak, Daewoo, MHI, Haas, Fadal, Kira, Cincinnati, Olofsson, Bridgeport, Niigata, Makino, Brother, Toyoda

CAD/CAM: Solidworks, AutoCad, Gibbscam, and MasterCam

Machining Equipment: Vertical Machining Centers, Horizontal Machining Centers, Vertical / Horizontal Lathes, 9-axis mill/turn, Angle Head Tooling, Rotary Dial Equipment, CNC Elliptical Grinding, Broaching

Education

Purdue University, West Lafayette, Indiana *97-01*
Bachelor of Science, Industrial Engineering (1 yr of core classes left)