

MARK A. HOCHKINS

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OBJECTIVE

To apply knowledge gained during 32 years of automotive and aerospace industry experience and education. To implement skills learned from employment in the field of Quality Engineering, Dimensional Metrology and Journeyman Tool Maker for the continuous improvement and development of manufacturing processes. To implement CMM programming and machining skills for process development. To continue growth in understanding of DMIS, CNC and CAD based programming languages.

EXPERIENCE

BOBIER METROLOGY SOLUTIONS

FLINT, MICHIGAN

LAB METROLOGIST, SEPTEMBER 2009 TO PRESENT

Coordinate Measuring Machine programmer and Dimensional Metrologist. Portable CMM hard probing and laser scanning using NDI equipment. Gage lab measurement and certifications.

GKS INSPECTION SERVICES, INC.

PLYMOUTH, MICHIGAN

CMM PROGRAMMER/ METROLOGIST, JANUARY 2007 TO SEPTEMBER 2009

Coordinate Measuring Machine programmer and Dimensional Metrology; employed Metrolog software on a Johansson Topaz and Sapphire CMM for inspection of a wide variety of manufactured parts for the medical, automotive, power generation and aerospace industries. Inspected close tolerance machined tooling and gages. Vision Systems and Optical Comparator programming. Gage and fixture certifications. CAD generation for reverse engineering of point cloud data. FARO Arm (portable CMM) measurement and laser scanning.

GEMA (GLOBAL ENGINE MANUFACTURING ALLIANCE) A JOINT VENTURE OF

DAIMLER CHRYSLER, MITSUBISHI AND HYUNDAI

DUNDEE, MICHIGAN

CMM PROGRAMMER/ LAB TECHNICIAN, SEPTEMBER 2004 TO JANUARY 2007

Coordinate Measuring Machine operator/programmer; employed Zeiss Calypso software on a Zeiss Prismo Vast CMM for inspection of automotive engine blocks, heads and crank shafts to CAD model nominal data. Implemented policy and procedures for layout inspection processes involving metallurgical inspection of Induction heat treated crank shafts. Programmed Adcole 1200SH Cylindrical Coordinate Measuring Machine for crank shaft journal dimensional analysis. Created work instructions and documentation for Layered Process Auditing.

OGIHARA (AUTOMOTIVE)

HOWELL, MICHIGAN

CMM PROGRAMMER, JUNE 2004 SEPTEMBER 2004

Coordinate Measuring Machine programmer; employed MetrologXG software on a Zeiss SMM-CMM for inspection of automotive body panel stampings to CAD model nominal data. Implemented policy and procedures for layout inspection processes.

WILLIAMS INTERNATIONAL (AEROSPACE)

WALLED LAKE, MICHIGAN

CMM PROGRAMMER/PROCESS QUALITY AUDITOR, JUNE 2002 TO MAY 2004

Coordinate Measuring Machine programmer, employed MetrologXG software on a SIP Orion 6 CMM, LK-DMIS software on LK G90 CMM and PC-DMIS on a Browne & Sharpe CMM. Inspected Precision machined components of turbofan jet engines and air foils to blue print specifications. Performed surface plate layout inspection and dimensional analysis of machined components. Performed process quality audits of receiving inspections, in process inspections, 1st article and final inspections.

MERRILL TOOL & MACHINE (AUTOMOTIVE & AEROSPACE)

MERRILL, MICHIGAN

CMM PROGRAMMER/OPERATOR, AUGUST 2001 TO MARCH 2002

Coordinate Measuring Machine programmer, employed Virtual-DMIS software to inspect precision-machined parts on a Brown & Sharp CMM.

ROYAL OAK BORING (HEAVY EQUIPMENT)

LAKE ORION, MICHIGAN

QUALITY ENGINEER/SUPERVISOR, MAY 2001 TO JULY 2001

Investigated, issued and implemented *Corrective Actions*. Performed PPAP submissions. Wrote control plans and work instructions. Used of Microsoft Office databases.

DONNELLY ELECTRONICS (ELECTRONIC CIRCUIT BOARDS)

HOLLY, MICHIGAN

QUALITY ENGINEER, OCTOBER 2000 TO MARCH 2001

Investigated, issued and implemented *Corrective Actions* and containment for process quality defects of electronic circuit boards. Performed PPAP submissions. Wrote control plans and work instructions.

**THE GATES RUBBER COMPANY RESEARCH AND DEVELOPMENT ATC
(AUTOMOTIVE TECHNICAL CENTER)**

ROCHESTER HILLS, MICHIGAN

QUALITY ASSURANCE LAB TECHNICIAN, AUGUST 1999 TO OCTOBER 2000

Set up and installed an Inspection and Test Lab. Retrofitted CMM with Virtual-CMIS software. Developed and implemented a gage control program for Research and Development laboratories. Developed and implemented inspection procedures and work instructions.

MAY & SCOFIELD Howell, Michigan
CMM Technician, July, 1998 to August 1999

Implemented an inspection procedure and developed work instructions.
QS9000 requirements. Programmed and operated a LK CMM.

DELPHI AUTOMOTIVE SYSTEMS August 1977-July 1998 (AC Spark Plug, Flint, Mich.)
Dimensional Metrologist
Toolmaker - Production Floor

Performed surface plate layout inspections for Process Engineering. Programmed and operated CMMs.
Built machines and tooling for the production floor.

Equipment

- CMM – Zeiss (UMESS, Calypso, Metrolog) SIP (Metrolog), LK (LK-DMIS, VIS-CMES), Brown & Sharp (PC-DMIS, Virtual-DMIS)
- Adcole – 1200 CCMM
- Mitutoyo Round Test
- Detroit Precision Hommel – Surface Finish / Contour Measuring Machine
- Optical Comparator - OGP (Smart Scope CNC), Starrett (CNC), Johansson
- Measuring Microscope - Nikon
- Height Gage – B&S Micro Height, Mitutoyo 600
- Surface Plate – Sine Plate, Gage Blocks, Height Master, Dial Indicator

Education

CAD Design, Baker College, Flint, MI. (currently)

Baker College, Flint, Michigan, 6/2004
Associate of Applied Science for Industrial Technology *4.0 GPA*

Mott Community College, Flint, Michigan 6/1990
Toolmaker Apprentice Related Instruction, 576 hrs. 4.0 GPA
AC Spark Plug, Flint, Michigan Journeyman Toolmaker 1990