
EMPLOYMENT EXPERIENCE

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| Supplier Quality Engineer | Diamond Aircraft Industries | September 2018 – |
| <ul style="list-style-type: none">• Attained savings of over \$150K USD by managing the return of components to vendors• Created vendor metrics dashboard spreadsheets by extracting metadata from ERP SQL database• Improved adherence to quality standards by issuing corrective actions to suppliers, conducting internal audits and chairing the corrective action board | | |
| Corrective Action Coordinator | Honeywell Aerospace | March 2015 – July 2016 |
| <ul style="list-style-type: none">• Achieved \$50K USD scrap cost reduction by implementing root cause analysis and mistake proofing controls• Spearheaded Returns to Vendor, SAP ERP inspection flags and SCARs minimizing production defects• Used engineering drawings and BOM to troubleshoot electromechanical hardware and their assembly• Instructed induction quality training and supervised intern industrial engineers | | |
| Jet Turbine Quality Engineer | Chromalloy Southwest | January 2014 – March 2015 |
| <ul style="list-style-type: none">• Organized customer 8D processes and provided technical support to engineering and procurement• Outlined standard operation (SOP) and quality control procedures for mechanical and facilities processes• Maintained the Quality Management System (QMS) internal documentation in accordance with regulatory compliance specification; Supervised mechanical engineering students | | |
| Insulation Design Quality Engineer | Triumph Group | December 2011 – July 2013 |
| <ul style="list-style-type: none">• Reviewed engineering mechanical drawings during new product development• Increased approval of mechanical design from 52% to 95% through weekly design reviews and organizational change management• Liaised with product development and manufacturing to support the production environment• VBA Developer of Key Performance Indicator (KPI) reports, enhancing company-wide communication | | |

EDUCATION

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| London, ON, Canada | Western University | September 2016 – August 2018 |
| <ul style="list-style-type: none">• M.E.SC. degree in Electrical and Computer Engineering, August 2018• Graduate Coursework: Digital Image Processing, Advanced Image Processing and Analysis, Medical Imaging. | | |
| Mexicali, BC, Mexico | National Technological Institute of Mexico | July 2006 – June 2011 |
| <ul style="list-style-type: none">• B.Eng. degree in Mechatronics Engineering with specialty in Automation and Control, June 2011.• Undergraduate Coursework: Robots and Robotics, Instrumentation, Real-Time Programming, Control Theory, PLC, Embedded Software, CAD, Manufacturing Processes, Power Electronics, Networks, Electric Machines. | | |

HARDWARE & SOFTWARE PROJECTS

- **DICOM Bone Volume Renderer (2019).** Renders bone data from computed tomography DICOM images using The Visualization Toolkit. C++, CMake, VTK, OpenGL, Visual Studio 2019, Github, Git Bash
- **Custom Workstation PC (2019).** Built custom desktop workstation, optimizing and overclocking GPU and CPU. Hardware, Parts Selection, Screwdriver, Cable management
- **Master of Engineering Science Thesis (2018).** Software development prototyping for calculating skull bone thickness to aid in surgical planning of bone-conduction devices, otologist- validated research. MATLAB, 3D Slicer, 3D Systems Geomagic, IBM SPSS, GraphPad Prism, segmentation and ray tracing algorithms, writing

ADDITIONAL EXPERIENCE

- **Freelance Audio Engineer (2012 – 2016):** Used technology for tracking, mixing and monitoring analog signals
- **Training and Certifications:** Lean Manufacturing 6 Sigma Green Belt; Certified Quality Engineer; Cause Analysis and Mistake Proofing Problem Solving; Composites Technology;

SKILLS

- Fusion 360; EAGLE ECAD; CATIA; MATLAB; LabVIEW; DAQ; Oscilloscope; Sensors; Multi-meter; RS-232; USB
- Microsoft Excel; Visio; Word; PowerPoint; C; C++; ITK; VBA; CMake; Visual Studio; Ubuntu Linux; RTOS Linux