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EMPLOYMENT EXPERIENCE

Supplier Quality Engineer — **Diamond Aircraft Industries** — **September 2018 –**

- 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**

- 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**

- 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 Federal Aviation Administration (FAA) compliance specification; Supervised mechanical engineering students

Insulation Design Quality Engineer — **Triumph Group** — **December 2011 – July 2013**

- Reviewed engineering mechanical drawings during new product development
- Increased mechanical design approval by 43% 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

London, ON, Canada — **Western University** — **September 2016 – August 2018**

- 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**

- 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

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