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# CARLOS SALGADO

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<https://socd06.github.io>

## EMPLOYMENT

<b>Supplier Quality Engineer</b>	<b>Diamond Aircraft Industries</b>	<b>September 2018 –</b>
<ul style="list-style-type: none"><li>• Attained savings of over \$150K USD by managing the return of components to vendors</li><li>• Created quality metrics dashboard and vendor cost of quality by extracting metadata from SQL database</li><li>• Increased adherence to quality requirements by issuing corrective actions to suppliers, conducting internal audits and chairing the corrective action board</li></ul>		
<b>Corrective Action Coordinator</b>	<b>Honeywell Aerospace</b>	<b>March 2015 – July 2016</b>
<ul style="list-style-type: none"><li>• Achieved \$50K USD scrap cost reduction by implementing root cause analysis and mistake proofing controls</li><li>• Spearheaded Returns to Vendor, SAP inspection flags and SCARs minimizing production defects</li><li>• Instructed induction quality training and supervised intern industrial engineers;</li></ul>		
<b>Jet Turbine Quality Engineer</b>	<b>Chromalloy Southwest</b>	<b>January 2014 – March 2015</b>
<ul style="list-style-type: none"><li>• Headed customers 8D processes and provided technical support to engineering and procurement</li><li>• Outlined standard operation (SOP) and quality control procedures for mechanical and facilities processes</li><li>• Maintained the Quality Management System (QMS) internal documentation achieving Federal Aviation Administration (FAA) compliance; Supervised mechanical engineering students</li></ul>		
<b>Insulation Design Quality Engineer</b>	<b>Triumph Group</b>	<b>December 2011 – July 2013</b>
<ul style="list-style-type: none"><li>• Reviewed engineering mechanical blueprints during new product development</li><li>• Improved engineering design quality approval by 43% through weekly design review</li><li>• Liaised with product development and manufacturing to process non-conforming material</li><li>• Developer of Key Performance Indicator (KPI) reports, enhancing company-wide communication</li></ul>		

## EDUCATION

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

## TECHNICAL EXPERIENCE

### 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 of prototype 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

### Engineering Technologies and Software Tools

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