

# Garett Williams

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**OBJECTIVE:** Leader of a small corporation seeking to provide high quality design for manufacture and process engineering services through C2C or B2B contract.

## PROFESSIONAL EXPERIENCE:

### Grand Will Corporation

Atlanta, Ga.

July 2020- Present

#### Advanced Manufacturing Engineer | Quality Engineer | Owner

- Redesigned and manufactured client's custom threaded piping component out of PLA using Fusion360, 3d Printing, and post processing techniques in order to meet all of customers needs and secure 5-star rating on first freelance project.

### Honeywell Aerospace

South Bend, In./Atlanta, Ga.

Aug 2019- July 2020

#### Advanced Manufacturing Engineer II- Tooling and Fixture Design Specialist

- Designed manufacturing tools and fixtures critical to high precision 3-axis and 5 axis CNC machining processes required to manufacture RF components, such as radar and ground-to-air communication systems, for military and commercial application.
- Designed and implemented inspection and test tooling and fixtures to mitigate nonconforming RF components for military Close-in Weapons Systems (CIWS) and Line Replaceable Units (LRU) resulting in elimination of failure modes.
- Analyzed component stack-up tolerances in order to provide consultation to Project Engineering team in regard to design changes necessary to meet fit requirements for electromagnetic device assembly.
- Analyzed component design specifications and 3D Models in order to assess potential for and facilitate in-house manufacturing by interpreting and applying geometric dimensioning and tolerancing standards.

#### Advanced Manufacturing Engineer II- Wheel and Brake Assembly Subject Matter Expert Sep 2018- Aug 2019

- Coordinated the launch of numerous new and revised aircraft Wheel and Brake Assemblies and Subassemblies such as the A330 Neo and C919 Wheel Assembly and Brake Assembly.
- Designed tooling fixtures to facilitate the increased productivity and reliability of aircraft Wheel and Brake Assembly processes such as Torque Tube Heat Shield riveting and Piston Housing Lee Plug and Orifice installation processes.
- Collaborated with a range of professionals as part of cross-functional teams aimed at the design and review of new products.
- Revised and Improved the reliability of assembly/test equipment and processes such as the Red Oil/ Skydrol Brake Test Panel Calibration procedure and the Wheel Bearing Hydraulic Pressure Unit Preventative Maintenance Plan.
- Led root cause analysis and corrective action initiatives to improve the production capability of the Brake Assembly lines.
- Developed and Led Corrective Action and Continuous Improvement efforts and initiatives aimed at the remediation of Wheel and Brake Assembly and Test processes.

#### Advanced Manufacturing Engineer - Brake Assembly Subject Matter Expert May 2017-Sep 2018

- Authored digital work instructions with an emphasis on visual management in order to design and stabilize robust Aircraft Brake Assembly processes.
- Optimized manufacturing workspaces through the use of lean six sigma principles such as 5s and waste elimination.
- Produced workscope documentation for the repair of Aircraft Wheel and Brake components across numerous platforms.

### Delta Air Lines TechOps

Atlanta, Ga.

January 2013-August 2014

#### Propulsion Engineering Support Co-op

- Advised original engine manufacturer representatives (OEM) in order to produce and approve engineering solutions for the purpose of updating manufacturer's standards.
- Authorized and substantiated repairs on CFM-56-7B and other engines based on previous knowledge and FAA regulations.
- Led in the design of in-house hardware manufacturing solutions in order to prevent destabilizing engine wear trends.
- Ensured FAA/FAR compliance in all engineering inspections and repair operations.

## EDUCATION:

### Georgia Institute of Technology

Atlanta, Ga.

**Graduation Date: May 2016** Bachelor of Science in Aerospace Engineering

Georgia Tech Dean's List

Co-Op distinction

National Achievement Scholar

- Collaborated with a team in the successful design of a Military Vehicle with VSTOL capabilities and worldwide range.
- Conducted aerodynamic testing using various wind-tunnels, air manipulation apparatus, and shock wave forming processes
- Designed an experiment to test the affects of various icing conditions on a high lift capability UAV wing.

**SKILLS:** Proficiency in Creo Parametric, Seimens NX, Solidworks, Solid Edge, SAP, Lean Six Sigma Principles, Design Review Board, SCEPTRE, Xfoil, AVL, Microsoft Office Suite, CNC Machining, Autodesk: Inventor, AutoCAD, Fusion 360, MS Visio, MS Access, MS SharePoint, Windows & Macintosh OS, Technical Writing, Matlab, Simulink, French, SQL, Engine Repair/Overhaul, Manufacturing Testing.