

# Bradley Goldsworthy

3300 NE 191st APT 814 | Aventura, FL | (305)-469-9432 | EngineerGoldsworthy@gmail.com

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## OVERVIEW

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Results orientated engineer with 10+ years of progressive and true cross-functional experience aiming to leverage my diverse skill set to excel.

- ACE Lean Practitioner
- AS9100 or ISO9000 QMS
- High Strength Steel Machining
- VBA Coding
- Structural Analysis
- GD&T Analysis
- Composite Repair Experience
- Computer Aided Print Design
- Damage Tolerance and Fatigue Analysis
- Structural Metallic Repair
- Engineering Leader Ship
- FAA MRB Regulatory Compliance
- Plating and NDT experience
- Fastener Bolt/Joint Analysis
- ASME Y14.5 Geometric Dimensioning & Tolerance
- MRO Repair and Overhaul Engineer

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## PROGRAMS & LANGUAGES

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- MS Office Products (Word, Excel, Power Point, MS Access)
- Oracle, SAP, Oracle, REDARS, Velocity, Enovia
- Java, VBA Programming, Python, SQL Coding
- AutoCAD, Pro/E, Solid Works 3D, CATIA, Matlab, AutoCad
- Spanish (Reading and Writing), English (Reading and Writing)

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## PROFESSIONAL EXPERIENCE

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**Collins Aerospace, Miami, FL**

05/2020 – Present

***Engineering Manager MRO R&O Military Programs***

Engineering Manager (C-17/F22/F35/SH-60/AH-64/E2/C2) programs. Manager of the Configuration Engineering Team and the Repair and Overhaul Engineering Team.

- Developed a Dashboard in Tableau and MS Access to track my engineering's team KPIs that measured the turnaround time for engineering activities including BOM configuration, Assembly Books release, Engineering Change Request (ECR) management. Was able to maintain a 90% on target delivery time rolling on 30 days and increase from a 75% TAT before implementation.
- Established an ECR (Engineering Change Request) published processes with control documents to support Engineering, Quality and Manufacturing activities. This led to 221 Engineering Changes since the inception of the tool established in Jan 2022.
- Generated MS Access forms and reports for data extraction from SAP to allow myself to conduct studies, data analysis and floor support pertaining to production performance. I analyzed sequences of operations and workflow for cost reduction and shorter turnaround time. Reduced the turn around time for major components from 280 day turnaround time to a 120 day turn around.
- Utilized tools like Microsoft Excel, Access, PowerPoint, Project, Structured Query Language (SQL), OneNote, ERP/SAP to monitor development of talent, engineering projects, nonconformance management, manpower scheduling and budgeting.
- Generated and established an Engineering Skills matrix along with training plans for Repair and Overhaul Engineers and Configuration Engineers. Implemented cross functional training plans within engineering functions to allow for shop schedule coverage.

**Collins Aerospace, Miami, FL**

03/2019 – 05/2020

***MRO R&O Landing Systems Lead Engineer Staff Engineer 4***

Engineering lead for (C-17/F22/F35/SH-60/AH-64/E2/C2) programs. Lead of the Configuration Engineering Team and the Repair and Overhaul Engineering Team.

- Provided oversight and approval of technical approaches, products and processes.
- Lead events by D.I.V.E (Define/Investigate/Verify/Execute) otherwise an equivalent to the DMAIC process in compliance with A.C.E. (Achieving Competitive Excellence) otherwise equivalent to Lean Manufacturing to reduce shop rework by 70% in 2020.

- Conducted root cause and corrective action and problem solving (Red-X, 8D) investigations in the event of a supplier escape to Collins Aerospace and managed data and nonconformance to comply with AS9100 or ISO9000 Quality Management System.
- Generated a Nonconformance Log Tracker via VBA code that integrates MS Access with SAP automatically to input and pull data to communicate status of product between shop support, engineering support and management.
- Created routings to comply with SAE AS7003 NADCAP certification for Shot Peen, Cadmium Plating, Chrome Plating, Sulfamate Nickel plating, Brush Cad, Alodine, and NDI Inspection including Florescent Penetrant Inspection and Magnetic Particle Inspection .
- Led transition of the engineering processes for the C-17 Program from Canada to Florida by working with the manufacturing, supply chain, and engineering teams across the Canadian and Florida facility.
- Coordinated and facilitated multiple project meetings with the customer's engineering Material Review Board, Collins' quality engineering team and Collin's materials and process engineering team to obtain approval of scope of work, timelines and process test procedures.
- Directed work for the configuration engineers and the repair and overhaul engineers for the Florida military programs and escalated road blocks to senior management as required.
- Provided training to multiple groups on the value stream of several engineering topics including the differences in coatings, plating, and interpretation of engineering drawings.
- Designed part protection to minimize part handling damage and tooling for plating such as anodes and cages.

**Collins Aerospace, Foley, AL**

11/2017 – 03/2019

***Aerostructures-MRB Product Review Senior Engineer 3***

Material Review Board Member for ROHR and Airbus commercial with full MRB Authority. Investigated and coordinated solutions to non-conforming discrepancies with multiple cross-functional teams.

- Developed (Composite or Metallic Structural) solutions to non-conforming conditions including: out of tolerance, laminate discrepancies, assembly rejections, discrepant coatings, incorrect part numbers and rejections during non-destructive testing.
- Analyzed impact of non-conformances to functional interfaces, structural integrity, metallurgical concerns, repair and overhaul capability, weight, aesthetics, aerodynamics, interchangeability and maintainability.
- Coordinated discrepancies and subsequent repair dispositions with cross-functional groups including Material Process and Technologies, Design Engineering, Stress Engineering, Manufacturing Engineering, Program Quality and Supplier Quality.
- Generated out of autoclave repair dispositions for composite materials such as CFRP Unidirectional Tape, HEXMC, Triaxial Braid, Glass Fiber Reinforced Plastics.

**Tropical by Pacha Mama Restaurant, Goose Creek, SC**

06/2016 – 09/2017

***Founder, Owner, Manager***

Opened a new restaurant and accompanying food truck. Successfully grew the business and later profitably sold the business.

- Utilized local media outlets to further expand the interest for Latin food in Charleston, SC. Coordinated events for the business by contacting event coordinators to set up events for the food truck.
- Worked with multiple contractors and location owners to renovate the kitchen, internal and external spaces including the parking lot of the new restaurant. Worked with food truck manufactures to custom build a Pacha Mama food truck.

**Boeing Commercial Airplanes, North Charleston, SC**

09/2013 – 06/2016

***MRB Product Review Engineer 2***

Material Review Board Member. Investigated and coordinated solutions to non-conforming discrepancies in Structural Group for Composite with multiple cross-functional teams.

- Performed structural ply orientation analysis for repairs utilizing methods of KBE Tools, CATIA Ply explorer Visu, CATIA core sampling ply table. Also used SABRE as a CATIA tool to aid engineering, composite shop and quality personal in the design analysis, inspection and application of scarf repairs.
- Disposition and wrote complex composite repair procedures to aircraft structure including, out of autoclave wet layup repairs, Hole Potting, and patch repairs.

- Performed Material Review Board Structural Analysis including fastener analysis including Fastener Strength capability (shear, tension, bending) and Fastener Bearing Capability. Performed Structural Analysis vs Design Structural Capability to determine Margin of Safety affects to ensure positive margins. Methods found from Boeing and McDonald Douglas methods.
- Performed Fatigue and Damage Tolerance knockdowns of baseline design Margin of Safety based on the manufacturing defect outline by the Quality Notification due to production issues such as oversized holes, fastener pitch, alternate fastener type, knife-edge countersink, short edge margin, ect.
- Made a determination whether repair would be classified as Major or Minor based on the affects to the fail sage and damage tolerance affects.
- Preformed Structural Analysis on repairs to deem structurally acceptable to maintain Airplanes Air Worthiness criteria.
- Founded Society of Hispanic Professional Engineers for local chapter in South Carolina and BSC.
- System Integration nonconformance analysis to determine faulty production defects and provided dispositions for repair.

**Boeing Commercial Airplanes, Mukilteo, WA**

07/2012 – 09/2013

***MRB Product Review Engineer 1***

Liaison engineer between the Material Review Board, the design engineering team and the production floor.

- Facilitated disposition review meetings between the stress, product design and manufacturing engineering groups to restore structural damage to original design intent strength capabilities.
- Participated in Material Review Boards and Integrated Product Teams to analyze and determine root cause of design non-conformances.
- Investigated corrective action requests and provided solutions to ensure product met FAA and design print specifications as well as the airplane production certificate requirements.
- 9 Month Engineering MRB Rotation supporting 737, 747, 767, 777 production.

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## **EDUCATION**

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**Masters in Business Administration in Aviation 2023**

Embry Riddle Aeronautical University

**Bachelor of Science in Mechanical Engineering with Aerospace Concentration, 2012**

Rutgers University, New Jersey

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## **TRAINING**

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- Composite Analysis and Repair
- Universal Product Review (UPR) American Mechanical Engineering Society
- Commercial Product Review (CPR) Society Of Hispanic Engineers (SHPE)
- Catia Part Design Specialist Edmonds Community College Minority Engineering Educational Task
- A.C.E.(Achieving Competitive Excellence) Practitioner Lean Manufacturing
- PMP Course Certification