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| Tony Beard |
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Contact**Address:  :** Knoxville TN 37920 **Address:  :** 37920, Knoxville, TN **Phone:  :** 8654556628 **Email:  :** anthony.joseph.beard@gmail.com**WWW:  :**https://www.linkedin.com/in/anthonyjbeardSkills* CATIA V5
* SolidWorks
* Microsoft Office
* Abaqus
* Ansys Fluent
* HyperMILL
* CADWIND
* Flexwind
* Adobe
* Filament Winding
* Structural design and repair
* composite manufacturing
* GD&T
* Injection Molding
* Airworthiness considerations
* Leadership
* Project Management
* Teamwork
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 affiliations* SAMPE

CertificationsQ/SCI Security Clearance - US DOE EIT - State of Tennessee  Material Review Board – BoeingEducationBachelor of Science : Aerospace Engineering, 05/2011 The University of Tennessee - Knoxville - Knoxville, TN * 3.41 cumulative; 3.57 engineering GPA
* Capstone Project: UTK AIAA Design/Build/Fly Entrant, Lead Engineer

Graduate engineering coursework completed at The University of Southern California |  |  | Professional SummaryMotivated and experienced Mechanical Engineer with a strong background in aerospace and manufacturing seeking a role to lead aircraft design and development, aiming leverage expertise in composite materials, and contribute to the future of hypersonic flight.Work HistoryLead Mechanical Engineer, 02/2023 to CurrentOak Ridge National Laboratory, ORNL - Knoxville, TN* Flight Team Lead Engineer for IBAS TPS Program; rapid design and integration of

hypersonic test hardware. ORNL Liaison coordinating with multiple companies toexecute deliverables on-time.* Trains junior engineers and techs on composite manufacturing principles, represents manufacturing and teams during meetings with internal and external stakeholders
* Spearheads process definition and improvement for manufacturing of composite

preforms for hypersonic applications* Researches and procures hardware for R&D on novel manufacturing methods
* Suggests cost saving proposals on make-versus-buy analysis or alternative sourcing
* Participates in interviews and influences hiring decisions

 Process Control Engineer, 12/2020 to 02/2023Oak Ridge National Laboratory, ORNL - Oak Ridge, TN* Defined and matured processes for manufacturing of gas centrifuge components to meet program deadlines
* Consulted with design engineering on manufacturability of proposed designs
* Authored process documentation and SOWs for external partners
* Co-authored MRB process for the division; provided MRB engineering solutions for

resolution of NCRs; provided tracking and report out of all NCRsMRO Service Engineer, 09/2017 to 12/2020StandardAero - Maryville, TN* Project Manager for Rolls-Royce donor engine program, allowing for airworthiness

extensions of aging fleet of AE3007 engine family* Analyzed, troubleshot and diagnosed problems and provided prompt solutions
* Advised operators on engine issues and strategy to maximize time on-wing
* Provided instructions to shop floor for teardown, inspection, repair, assembly/ test
* Led Continuous Improvement initiatives to increase company profit margin

Production Engineer, 09/2016 to 09/2017DENSO Manufacturing Tennessee - Maryville, TN* Process ownership and engineering support of injection molding and sensor assembly
* Implemented kaizen solutions to reduce scrap and increase yield
* Supported audits by both customers and regulatory agencies

MRB Engineer, 07/2012 to 09/2016The Boeing Company - North Charleston, SC* Provided MRB dispositions on 787 Dreamliner program for a variety of issues during assembly and suppliers; coordinated with multiple engineering disciplines as required
* Initiated, execute, and closed RCCAs for suppliers to mitigate chronic issues
* Authored design changes while ensuring compliance with pertinent CFRs
* Provided guidance and drawing interpretation for technicians
* Trained junior engineers on repair strategies and structural repair

Retrofit and Repair Engineer, 06/2011 to 07/2012The Boeing Company - Tukwila, WA* Researched and authored repairs for 747 Structural Repair Manual
* Responded to customer inquiries to provide retrofit and repair solutions

 Fleet and Liaison Engineer Co-op, 01/2009 to 07/2010US Airways - Charlotte, NC* Designed repairs for 737 family of aircraft and obtained OEM consent to implement
* Provided work instructions for ADs and SBs issued against 757, 767, and A330 aircraft
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