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| . | |  | | --- | | Tony Beard | |  | |  |   Contact  **Address:  :** Knoxville TN 37920  **Address:  :** 37920, Knoxville, TN  **Phone:  :** 8654556628  **Email:  :** anthony.joseph.beard@gmail.com  **WWW:  :**https://www.linkedin.com/in/anthonyjbeard  Skills   * 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 * 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    affiliations   * SAMPE   Certifications  Q/SCI Security Clearance - US DOE  EIT - State of Tennessee  Material Review Board – Boeing  Education  Bachelor 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 Summary  Motivated 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 History  Lead Mechanical Engineer, 02/2023 to Current  Oak 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 to  execute 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 02/2023  Oak 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 NCRs  MRO Service Engineer, 09/2017 to 12/2020  StandardAero - 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 09/2017  DENSO 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 09/2016  The 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 07/2012  The 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 07/2010  US 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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