

Kevin Keith Beamish, Jr.

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EDUCATION

The University of Tennessee, Knoxville (Aug. 2010 – May 2014)

- *Bachelor of Science, Aerospace Engineering; **ABET Accredited Program***
- Graduation date – May 2014

Florida Institute of Technology, Cape Canaveral, FL (Currently Enrolled – Remote Student)

- Enrolled: *Master of Science, Space Systems*
- Projected Graduation Date – December 2018

Florida State College at Jacksonville (Currently Enrolled)

- Enrolled: *Associate of Science, Engineering Technology*
- Projected Graduation Date – May 2018

ENGINEERING EXPERIENCE

NAVAIR (Naval Air Systems Command, US Dept. of Defense, July 2014 – April 2017)

- **Aerospace Structures Engineer (GS-0861-12) – Naval Air Station Jacksonville, FL**
 - Provided structural and manufacturing engineering support for aircraft at fleet & depot maintenance.
 - Worked as manufacturing liaison with technical and military personnel to solve emerging issues.
 - Designed & implemented over 200 structural repairs and conducted associated analyses.
 - Composed original work instructions for all engineering and manufacturing projects.
 - Conducted engineering investigations, root cause analyses, and hazard risk assessments.
 - Developed engineering/technical specifications, technical publications, and manufacturing directives.
 - Produced technical build packages for manufacture of critical aircraft structures, including: blueprints and 3D models, manufacturing instructions, assembly/installation directions, maintenance plans, inspection requirements, quality standards, safety procedures, budgeting & scheduling of projects.

University of Tennessee, Knoxville (Aug. 2013 – May 2014)

- **Research Assistant – 3D Printed Vortex-Injected Hybrid Rocket Motor**
 - Designed, assembled, and fired a hybrid rocket motor utilizing a 3D-printed graphite nozzle.
 - Developed custom software model for analysis of design-dependent performance characteristics.

PROFESSIONAL SKILLS

- Four years of engineering and technical experience in industrial and manufacturing sectors.
- Design, analysis, construction, and repair of primary & secondary structures and components.
- Production of metallic and composite structures and precision manufacture to 0.001-inch tolerances.
- Working knowledge of machinery, tools, material, hardware, and methods used in modern manufacturing.
- Directing manufacturing processes including: fabrication and assembly of metallic and composite structures, welding, machining, tube bending, additive manufacturing, corrosion control, and non-destructive inspection.
- Designing tooling and fixtures to meet special maintenance or manufacturing requirements.
- Applying industrial engineering techniques for process improvement (**RCM, Lean/6 Sigma**).
- Conducting engineering simulations using CFD & FEM/FEA (**ANSYS, NASTRAN, StressCheck**).
- Computer programming for engineering applications (**MATLAB/Simulink, Python, C++, Microsoft Excel**).
- Using software for complex part design and manufacturing processes (**NX, Mastercam**).
- Extensive CAD & 3D solid modeling experience (**AutoCAD, Inventor, SolidWorks, NX**).
- Drafting and reviewing complex mechanical blueprints, bills of material, and manufacturing instructions.
- Acting as engineering liaison and technical support for customers and product end-users.
- Perform cost/benefit analyses of engineering operations and develop economical production plans.
- Use of CNC, PLC, and other automated mechatronic systems in complex integrated production lines.
- Compliance with federal, military, and international industrial practice and quality standards.
- Proficiency in Microsoft Office and Adobe Acrobat suites (**MS Word, PowerPoint, Excel, Acrobat Pro**).
- Time management, project organization, & data/document control in a fast-paced environment.
- Team leadership, public speaking, and written and interpersonal communication in a technical setting.

CERTIFICATIONS & SECURITY CLEARANCE

- Active U.S. Security Clearance: **Secret Clearance** (Verified August 2014)
- Certified: **RCM Analyst Level I** (Andromeda Systems Inc., Jacksonville, FL)
- Certified: **Lean/6 Sigma Yellow Belt** (Fleet Readiness Center Southeast, Jacksonville, FL)
- Certified: Federal Defense Acquisition, Systems Engineering, **Level I** (Defense Acquisition University (DAU))
- Certified: **OSHA 30-Hour** for General Industry (Florida State College at Jacksonville, FL; OSHA)
- Certified: **Engineering Technology Specialist** (Florida State College at Jacksonville, FL)
- Certifications Pending (May 2018): **CNC Machinist/Fabricator, Mechatronics** (FSCJ, Jacksonville, FL)

PROFESSIONAL ACTIVITIES

- AIAA (American Institute of Aeronautics and Astronautics), Cape Canaveral Chapter – *professional member*