Kelsey L. Calvert

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EDUCATION

University of Washington – Seattle, WA — B.S. Aeronautical Engineering
GPA: 3.53/4.0 — June 2017
Previous Coursework – Vibrations, Aerodynamics, Thermodynamics, Orbital Mechanics, Flight Mechanics Aerospace Structures, Propulsion
Planned Coursework (2016-2017) – Finite Element Analysis, Systems Engineering, Control Theory, Composite Structures

EXPERIENCE

Boeing – Everett, WA — June 2016 – Present
777 Liaison Engineer Intern

- Currently participating in a summer rotation program through all areas of 777-300ER and -200F production
- Learning Boeing standard manufacture, test and repair procedures for aircraft currently in production
- Aiding in solving emergent production issues, and navigating the FAA and quality control repair processes
- Will have experience in wings, robotic production, interiors, flight line, final joins and root cause analysis

TEAGUE – Everett, WA — June 2015 – September 2015
Technical Design Intern

- Created full-scale design prototypes in support of the 777X, including structural supports and attachments
- Extensive use of SolidWorks for true to specification modeling, including surface work
- Collaboration with CNC and build specialists to prepare designs for machining and construction
- 70% of time as intern billed toward official Boeing projects

TEAGUE – Everett, WA — June 2014 – September 2014
Mechanical Design Intern

- Developed 3D Printing techniques for internal prototyping resulting in wider adoption for design validation
- Performed basic structural and static analysis of industrial design electronic flight bag concept
- Created and maintained CATIA V5 master models for framework in support of 777X design studies
- Designed and created full CAD assembly and working prototype of linear feedback prototype device

PROJECTS

AA 322 Junior Project – Flying Wing UAV Concept Design — Spring Quarter 2016

- Designed a flying wing UAV concept aircraft as a team of five junior Aeronautics Students
- Created a full SolidWorks concept model for design validation and manufacturing preparation
- Analyzed the performance of the concept utilizing a half-scale model in the UW Kirsten Wind Tunnel
- Results proved the aircraft to be both dynamically stable, and able to provide enough lift for flight

PROFESSIONAL SKILLS

- *Engineering Design* – Experience in CATIA V5, and over 600 industry hours in SolidWorks CAD
- *Aerospace* – Knowledge of layouts, guidelines and practices within the commercial aerospace industry
- *MATLAB* – Experience using MATLAB for data analysis and visualization
- *Aerodynamics* – Knowledge of aerodynamic theory including wind-tunnel testing
- *Additive Manufacturing* – Experienced in use of 3D printing for iterative design validation
- *Manufacturing* – Experience in design for manufacture, and standard Boeing manufacture, repair methods
- *German Language* – Intermediate working proficiency, with extensive cultural knowledge and immersion