

## Kelsey L. Calvert

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### Current Address

McMahon Hall, Box 41517  
Seattle, WA 98195

### Permanent Address

1102 Wetmore Ave  
Everett, WA 98201

## **EDUCATION**

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**University of Washington** – Seattle, WA

B.S. Aeronautical Engineering (Intended)  
June 2017

GPA: 3.4/4.0

**Relevant Coursework** – Drafting and CAD Design, Engineering Mechanics (Statics), Calculus I-III, Differential Equations, Electromagnetism, German Language

**Planned Coursework (2014-2015)** – Waves and Relativity, Matrix Algebra, Scientific Computing (Matlab), Engineering Dynamics, Mechanics of Materials, Thermodynamics

**Everett High School** – Everett, WA

GPA: 3.9/4.0 - AP Scholar, 4 time Department Scholar

Completed: June 2013

## **EXPERIENCE**

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### **TEAGUE**

June 2014 – September 2014

#### **Mechanical Design Intern, Aviation Studio**

- Developed additive manufacturing techniques for internal prototyping and design validation
- Performed basic structural and static analysis of cockpit and 777x interior architecture
- Created SolidWorks, CATIA V5 master models for framework in support of Boeing and internal projects
- Designed and manufactured component packaging for use in aerospace validation mockups

#### **University of Washington Formula Motorsports Team 25**

##### **Composites Research and Development**

September 2013 – September 2014

- Tasked with creating a new radiator ducting system to improve cooling and engine performance
- Designed and analyzed part designs using Solidworks CAD and ANSYS software packages resulting in significant improvements in weight and laminar flow
- Extensive analysis resulted in 30% increase in cooling capacity with 20% reduction in power draw
- Named the "Design MVP" for Team 25

## **PROFESSIONAL SKILLS**

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- *Engineering Design* – Working knowledge and industry experience in SolidWorks and CATIA V5
- *Computational Fluid Dynamics* – Experience using ANSYS FLUENT simulations to test aerodynamics
- *Finite Element Analysis* – Introductory knowledge of ANSYS Static Structural platform
- *Additive Manufacturing* – Experienced in use of 3D Printing for design validation
- *Manufacturing* – Experience in Carbon Fiber layup manufacturing, CAM, and MultiCAM 3-axis routing
- *Aerospace* – Knowledge of layouts, guidelines and practices within the Aerospace industry
- *German Language* – Intermediate working proficiency, with extensive cultural knowledge and immersion

## **ACTIVITIES**

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### **Engineers without Borders, University of Washington Chapter**

September 2014 – Present

- Group of engineering students working to apply academic knowledge to global and local aid projects
- Currently working to reduce harmful particulates in rural cook stoves in support of Mech Eng. research

### **Design, Build, Fly – UW Chapter**

November 2014 – Present

- Aero/Astro Engineering student organization building a UAV to compete in a national competition
- Part of the design team, modeling, analyzing, and validating structures and aerodynamics