Kasey Webster

(435) 817-7421 · kjw@protonmail.com · websterkk.github.io

Mechanical Engineer with experience in computer simulations and analysis, computer programming, and manufacturing. Problem solver with a passion for learning new things and initiative to seek out answers and deploy robust solutions.

Education

Brigham Young University

Provo, UT

MASTER OF SCIENCE: MECHANICAL ENGINEERING

2015

• Thesis: Using STAR-CCM+ to Evaluate Multi-User Collaboration in CFD

Brigham Young University

Provo, UT

BACHELOR OF SCIENCE: MECHANICAL ENGINEERING

2012

Experience.

Raytheon Missile Systems

Tucson AZ

MANUFACTURING - MECHANICAL ENGINEER

June 2015 - Present

- Created and deployed Raytheon Missile Systems wide automated template for identifying key characteristics in manufacturing and quality control processes. Created all training documents and organized training classes.
- Created and deployed templates used by all Raytheon business units for automating both the creation of model based Technical Data Packages and completion of First Article Inspections.
- Created automated HTML template for Model Based Work Instruction which uses Creo API to include interactive 3D models, and saves time generating work instructions.

Brigham Young University

Provo UT

GRADUATE RESEARCH ASSISTANT

Jan 2013 - April 2015

- Realized 35% reduction in Computational Fluid Dynamics (CFD) set-up time through optimization of the process of multi-user collaboration process.
- Presented multi-user research to CFD industry leaders and developers at STAR Global Conference in March 2014.
- · Developed code to create parametric connection between collaborative CFD and collaborative CAD programs

Skills .

Computational Fluid Dynamics - STAR-CCM+

- Flow in multiple regions: conjugate heat transfer, external flow, cooling flow through jet engine turbine, and CFD on moving bodies.
- Model set-up, mesh generation, solving on a supercomputer.
- Macro generation using Java and STAR-CCM+ API.

Multi-User CAE and CAE Development

- Star-CCM+: Collaboration used to improve analysis model set-up and geometry preparation.
- NX-Connect: Parametric modeling through collaboration of multiple users (based on NX PLM software).
- NX Open API: Use API to interface with CAE software NX, STAR-NX, STAR-CCM+, ANSYS, i-Sight, HyperMesh, and Leap Motion.

Web, Adobe Acrobat, and Microsoft Office Development

- Website design using HTML, JavaScript and jQuery, and CSS.
- Developed web pages for work and personal use.
- Adobe Acrobat templates created using JavaScript and Creo APIs.

Spanish Speaking

· Professional Working Proficiency.

Awards and Certification

Jan 2016 Raytheon, Raytheon Six Sigma - Specialist

Tucson

Oct 2017 Raytheon, Up And Coming Award

Tucson

Dec 2017 Raytheon, Excellence in Operations and Quality

Tucson

Hobbies _

Mountain biking, reading, skiing, traveling