Jeff Erickson

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Education

University of Colorado Boulder – Master of Science in Aerospace Engineering Sciences   *2015-Present*

San Diego State University – Bachelor of Science Aerospace Engineering, Mathematics Minor   *2011-2015*
- Major GPA 3.58
- Class of 2015 Featured Grad
- College of Engineering Dean's List for 4 consecutive semesters

Related Experience

Daylight Solutions
Mechanical Engineer Intern   *Summer 2015*
- Supported design, analysis, test and experimentation tasks for the defense engineering department
- Used SolidWorks extensively; learned proper modeling and drafting procedures per ASTM Y14.5 to produce parts and drawings compliant with company standards
- Used SolidWorks Finite Element package to conduct resonance calculations for design refinement
- Designed and wrote documentation for experiment procedure for process improvement
- Regularly attended design reviews for the evaluation of my designs in progress

San Diego State Aerospace Structures Analysis and Optimization Research Group
Undergraduate Research Assistant   *2013-2015*
- Damage Analysis of Bolted Composite Joints
  - Used Abaqus & SolidWorks to design procedures for creating an embedded delamination damage of controlled shape, size and location through the thickness of a countersunk composite laminate panel
  - Designed and fabricated experiments to compare with simulated results obtained in Abaqus
- Finite Element Analysis of Composite Sandwich Structures
  - Learned to use FEMAP & Abaqus to model composite sandwich structures
  - Evaluated influence of element selection and model fidelity on bending stiffness
- NACA Airfoil Blending Methods
  - Used MATLAB, Excel & SolidWorks to interpolate NACA airfoil coordinates and design turbine fan blade shapes with sweep, taper and twist controls

Skills

- Experience with Computer-Aided Design & Finite Element Analysis Engineering tools: *SolidWorks & CREO/Pro-Engineer, Eagle PCB, FEMAP, Abaqus*
- Experience /exposure to computer programming languages including *MATLAB, C++, Java, HTML/CSS*
- Experience with bolted composite structural and damage analysis
- Exposure to geometric dimensioning and tolerancing ASTM Y14.5
- Exposure to machine shop manufacturing procedures including end-milling, hole-tapping
- Basic knowledge of electronic circuitry with skills in soldering, wiring, use of other various tools
- Microsoft Office tools (Word, PowerPoint, Excel, FrontPage)

Memberships, Organizations, Scholarships

- Tau Beta Pi Xi Engineering Honor Society – Treasurer Officer   *2012-2015*
- San Diego State Rocket Project Club – Electronics Team   *2013-2015*
- San Diego State Scholarships for Undergraduate Student Participation in Computational   *2013-2015*
  Science and Engineering Research