Dana Lynn Lansigan

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY | Class of 2019

GPA 3.937 | Bachelor of Science in Mechanical Engineering

Coursework: Engineering Mechanics II: Dynamics, Fluid Mechanics, Intro to Solid Mechanics, Information Devices and Systems, Prototyping and Fabrication, Intro to Computer Programming (Matlab), Intro to Manufacturing and Tolerancing, Three Dimensional Modeling (SolidWorks), Visualization for Design (AutoCAD)

SKILLS

Shop skills: woodwork, metalwork, 3D printing, laser cutting Software: SolidWorks, ANSYS, VisualStudio, XFLR5, AutoCAD, Cura. Adobe Photoshop and Illustrator

Concepts: 3D visualization, numerical methods, manufacturing, tolerancing, statics and mechanics, prototyping

Languages: Matlab, HTML, CSS, iOuery, Python, C#

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Cura, Adobe Photoshop and Illustrator	Languages: Matlab, HTML, CSS, jQuery, Python, C#		
EXPERIENCE/AFFILIATIONS Empennage Co-Lead, Internal Affairs Aero Design Society of Automotive Engineers (SAE) September 2015 - Present Undergraduate Researcher Space Sciences Laboratory University of California Berkeley February 2017 - Present Undergraduate Researcher Design for Nanomanufacturing Lab University of California Berkeley February 2016 - December 2016	 Designed, modeled, and analyzed airplane tail using SolidWorks and XFLR5 Employed woodworking and machine shop skills to construct model airplane Created and managed professional team website Spearheaded new member recruitment and training Placed fifth in flight at SAE West international competition Assisted in mechanical design of testing rigs for the Keck Planet Finder spectrometer parts Modeled and performed analyses on parts and assemblies in SolidWorks Prepared semiconductor chip samples and stamps using a spin coater and UV aligner Collected video data for nanoimprint lithography research using Matlab and Thorlabs components 		
		Lab Assistant Wind Tunnel Lab University of California Irvine May 2016 – August 2016	 Fabricated hot wire sensors with chemical lab equipment Operated wind tunnel at moderate Reynolds numbers to collect data for turbulence experiments Developed Matlab code for experiment data computations
		Explorer Intern Microsoft Redmond, WA <i>May 2017 – August 2017</i>	 Organized spec sheet to manage summer intern project Developed C# code to add virtual machine features to team's testing infrastructure
PROJECTS Fluid Visualization March 2017	 Coded game to visualize pathlines in ocean currents Implemented using Matlab 		
Computational Analysis of Trusses	Developed numerical method of determining nodal displacements and stresses within a truss structure.		

October 2016

- within a truss structure
- Implemented using Matlab

CalCase

May 2016

- Designed and manufactured a phone case that holds cards and a key ring
- Modeled with SolidWorks and 3D printed with Stratasys Objet printer
- Applied tolerances for desired fits derived from machinist's handbook

AWARDS & HONORS

UC Berkeley College of Engineering Dean's Honors List

Fall 2015 - Present

- Academic honor awarded to engineering students with a GPA in the top 10% of undergraduates in the College of Engineering **Boeing Scholars Scholarship** September 2016
 - · Scholarship awarded to outstanding and passionate engineering undergraduates pursuing a career in aerospace