

Dana Lynn Lansigan

(949) 381-8414 | dlansigan@berkeley.edu | <http://www.linkedin.com/in/dlansigan> | <http://dlansigan.github.io>

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)

In Progress: Mechanical Behavior of Materials, Dynamic Systems and Feedback, Thermodynamics

SKILLS

Shop skills: woodwork, metalwork, 3D printing, laser cutting

Software: SolidWorks, ANSYS, VisualStudio, XFLR5, AutoCAD, Cura,

Adobe Photoshop and Illustrator

Concepts: CFD, 3D visualization, numerical methods,

manufacturing, tolerancing, statics and mechanics, prototyping

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

EXPERIENCE/AFFILIATIONS

Empennage Co-Lead, Webmaster

Aero Design Society of Automotive Engineers (SAE)

September 2015 – Present

- Designed, modeled, and analyzed airplane tail using SolidWorks
- 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
- Utilized CFD to collect training data for neural network in shape optimization project

Undergraduate Researcher

Computational Fluid Dynamics Lab

University of California Berkeley

August 2017 – Present

Explorer Intern

Microsoft

Redmond, WA

May 2017 – August 2017

- Organized spec sheet to manage summer intern project
- Developed C# code to add virtual machine features to team's testing infrastructure
- Presented project to software development team

Undergraduate Researcher

Space Sciences Laboratory

University of California Berkeley

February 2017 – May 2017

- Assisted in mechanical design of testing rigs for the Keck Planet Finder spectrometer parts
- Modeled and performed analyses on parts and assemblies in SolidWorks

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

PROJECTS

Fluid Visualization

March 2017

- Coded game to visualize pathlines in ocean currents
- Implemented using Matlab

CalCase

May 2016

- Designed and manufactured phone case that holds cards and key ring
- Modeled with SolidWorks and 3D printed with Stratasys Objet Printer
- Applied tolerance 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