Dana Lynn Lansigan

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Summary

Well-developed professional skills from Microsoft internship experience
Multifaceted leader for growing engineering competition club
Passionate undergraduate researcher with professional learning mindset

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

Software: SolidWorks, OpenFOAM, Paraview, VisualStudio, AutoCAD, Adobe Photoshop and Illustrator
Languages: Matlab, HTML, CSS, jQuery, Python, C#

Experience

Mentor, Empennage Lead, Webmaster | September 2015 – Present
Aero Design Society of Automotive Engineers (SAE) | University of California, Berkeley

- 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

Explorer Intern (Project Management and Software Development) | May 2017 – August 2017
Microsoft | Redmond, WA

- 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 | August 2017 - Present
Computational Fluid Dynamics Lab | University of California, Berkeley

- Used OpenFOAM to collect training data for neural network in shape optimization project

Undergraduate Researcher | February 2017 – May 2017
Space Sciences Laboratory | University of California, Berkeley

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

Projects

Ichiban | December 2016

- Designed and prototyped Bluetooth-controlled "crawling" robot with laser cut wood, a high-torque motor, and Arduino components

Awards & Honors

UC Berkeley College of Engineering Dean's Honors List | Fall 2015 – Fall 2016

- Awarded to engineering students with a GPA in the top 10% of undergraduates in the College of Engineering

Boeing Scholars Scholarship | September 2016

- Awarded to outstanding and passionate engineering undergraduates pursuing a career in aerospace