

Dana Lynn Lansigan

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Summary Well-developed professional skills from internship experiences in aerospace and tech industries
Multifaceted leader for growing engineering competition club
Passionate undergraduate researcher with professional learning mindset

Education **University of California, Berkeley** | Class of 2019
GPA 3.85 | Bachelor of Science in Mechanical Engineering
Coursework: Prototyping and Fabrication, Intro to Computer Programming (Matlab), 3D Modeling (SolidWorks), Solid Mechanics, Mechanical Behavior of Materials, Applied Data Science, Visualization for Design (AutoCAD), Fluid Mechanics, Thermodynamics, Heat Transfer, Engineering Dynamics, Feedback and Control Systems, Information Devices and Systems

Skills Software: SolidWorks, OpenFOAM, Paraview, VisualStudio, AutoCAD, Adobe Photoshop and Illustrator
Languages: Python, Matlab, HTML, CSS, jQuery, C#
Concepts: 3D printing, prototyping, machine learning

Experience **Computer Aided Engineering Intern** | May 2018 – August 2018
The Aerospace Corporation | El Segundo, CA

- Modeled 3D printed parts for prototyping and research applications in SolidWorks
- Designed, 3D printed, and assembled model rocket parts for STEM outreach demonstrations
- Developed tools in Python for fluid mechanics applications

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

- Created and trained a neural network that predicts force coefficients on 2D airfoils
- Ran CFD simulations on vertical axis wind turbines in OpenFOAM

Mentor, Empennage Lead, Webmaster | September 2015 – December 2017
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
- 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

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, Spring 2018

- 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