

# DANA LYNN LANSIGAN

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## EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY | *Class of 2019*

GPA 3.9502 | Mechanical Engineering

*Coursework: Visualization for Design (AutoCAD), Three-Dimensional Modeling (Solidworks): In Progress, Intro to Manufacturing and Tolerancing, Intro to Computer Programming (Matlab), Intro to Solid Mechanics: In Progress*

## SKILLS

**Languages:** Matlab, HTML, CSS, jQuery, Python

**Software:** AutoCAD, SolidWorks, XFLR5, Adobe Photoshop and Illustrator, Cura

**Concepts:** Numerical methods, visualization, manufacturing, tolerancing, statics and mechanics, prototyping

**Other skills:** Woodwork, 3D printing, laser cutting, Arduino

## EXPERIENCE/AFFILIATIONS

**Undergraduate Researcher**  
**Design for Nanomanufacturing Lab**  
**University of California Berkeley**  
*February 2016 – present*

- ♦ 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
- ♦ Communicated experiment results to researchers

**Lab Assistant**  
**Wind Tunnel Lab**  
**University of California Irvine**  
*Summer 2016*

- ♦ Fabricated hot wire sensors with chemical lab equipment
- ♦ Operated wind tunnel to collect data for turbulence experiments
- ♦ Developed Matlab code for analyzing experiment data

**Empennage Co-Lead, Internal Affairs**  
**Aero Design Society of Automotive Engineers (SAE)**  
*September 2015 – present*

- ♦ Modeled empennage designs with SolidWorks
- ♦ Employed woodworking skills to construct model airplane for competition
- ♦ Designed and coded professional team website
- ♦ Spearheaded new member recruitment and training

**Engineering Representative Intern**  
**Pilipino Association of Scientists, Architects, and Engineers (PASAE)**  
*September 2015 – May 2016*

- ♦ Assisted in assembling monthly engineering newsletter for organization
- ♦ Facilitated numerous academic and cultural workshops for Filipino American students

## PROJECTS

**Band Transitions**  
*May 2016*

- ♦ Collaborated with teammates to conceive algorithm that optimizes band transitions
- ♦ Implemented using Matlab

**Orthoslap**  
*December 2015*

- ♦ Prototyped a card and die game designed to introduce students to multiview engineering drawings
- ♦ Modeled dice with SolidWorks and designed cards with AutoCAD

**CalCase**  
*May 2016*

- ♦ Designed and manufactured a phone case that holds a credit card, an ID card, and a key ring
- ♦ Modeled with SolidWorks and 3D printed with Stratasys Objet printer
- ♦ Applied tolerances for desired fits derived from machinist's handbooks

## AWARDS & HONORS

UC Berkeley College of Engineering Dean's Honors List

*Fall, Spring 2016*

- ♦ Academic honor awarded to engineering students with a GPA in the top 10% of undergraduates in the College of Engineering