

Dana Lynn Lansigan

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY | *Class of 2019*
GPA 3.952 | Mechanical Engineering

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

SKILLS

Languages: Matlab, HTML, CSS, jQuery, Python
Software: AutoCAD, SolidWorks, XFLR5, Cura, Adobe Photoshop and Illustrator

Concepts: 3D visualization, numerical methods, 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
May 2016 – August 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

- ♦ Performed engineering analyses to design tail geometry
- ♦ 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
Filipino 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 marching band transitions
- ♦ Implemented using Matlab

Orthoslap
December 2015

- ♦ Prototyped a 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 2015, Spring 2016

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