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 marching 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