Dana Lynn Lansigan

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Education

University of California, Berkeley — Berkeley, CA — GPA 3.952 *May 2019*

- Bachelor of Science in Mechanical Engineering

Irvine High School — Irvine, CA — GPA 4.58 *June 2015*

- Ranked in top 9% of class of 400

Technical Skills

- Skilled in AutoCAD, SolidWorks
- Self-taught in HTML, CSS, jQuery
- Experienced in Matlab

Coursework

- E 25 Visualization for Design, AutoCAD
- E 26 SolidWorks (in progress)
- E 27 Intro to Manufacturing and Tolerancing
- E 7 Matlab
- ME C85 Solid Mechanics (in progress)

Lab Experience

Undergraduate Researcher *February 2016 - present*

Design for Nanomanufacturing Lab, University of California Berkeley

- 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 *Summer 2016*

Wind Tunnel Lab, University of California Irvine

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

Activities

Empennage Co-Lead, Internal Affairs *September 2015 – present*

Aero Design Society of Automotive Engineers (SAE)

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

Engineering Representative Intern *September 2015 – May 2016*

Pilipino Association of Scientists, Architects, and Engineers (PASAE)

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

Projects

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

Band Transitions *May 2016*

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

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