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Dana Lynn Lansigan

Education

University of California, Berkeley — Berkeley, CA — GPA 3.952 *May 2019*
- Pursuing 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, Python
- Experienced in Matlab

Coursework

- E 25 Visualization for Design and AutoCAD
- E 26 SolidWorks (planned)
- E 27 Manufacturing and Tolerancing
- E 7 Matlab
- ME C85 Solid Mechanics (planned)
- CS 61A Python (planned)

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
- Trained other undergraduate researchers on wind tunnel system

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
- Organized officer board meetings to discuss plane design and club logistics

Engineering Representative Intern *September 2015 – May 2016*
Pilipino Association of Scientists, Architects, and Engineers (PASAE)
- Assisted in assembling monthly engineering newsletter for organization
- Facilitated academic and cultural workshops for high school students during Filipino Empowerment Day and Senior Weekend

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
- Worked with teammates to optimize design and manufacturing process

Band Transitions *April 2016*
- Collaborated with teammates to conceive an algorithm that optimizes marching 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