DANA LYNN LANSIGAN

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EDUCATION

University of California, Berkeley — Berkeley, CA — GPA 3.91   *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, BASIC, C, and Java
 - Experienced in Matlab

COURSEWORK

 - E 25 Visualization for Design and AutoCAD
 - E 26 SolidWorks (planned)
 - E 27 Manufacturing and Tolerancing
 - E 7 Matlab
 - 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

ACTIVITIES

Co-Empennage 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

Engineering Representative Intern   *September 2015 – present*
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

Space Travel   *Summer 2015 - present*
 - Used Java to develop original 2D puzzle-adventure game
 - Designed game art with Adobe Photoshop

AWARDS & HONORS

Banatao Scholar, Asian Pacific Fund   *April 2015*
 - Yearly scholarship awarded to five outstanding Filipino-American students pursuing STEM degrees

UC Berkeley College of Engineering Dean's Honors List   *Fall 2016*
 - Academic honor awarded to engineering students with a GPA in the top 10% of undergraduates in the College of Engineering