# EMILIE CAMPOS

1109 E Grovecenter St  $\diamond$  West Covina, CA 91790 (626) 482-0925  $\diamond$  ejcampos@ucla.edu

#### **OBJECTIVE**

Multidisciplinary engineer with excellent problem solving and critical thinking abilities, seeks hands on experience within a company that embraces creativity and innovation. Through my studies, I have gained extensive knowledge of production and manufacturing engineering, product design, among many other components of Mechanical Engineering. Effective communicator who builds positive, cohesive relationship with all level of staff, eager to put my engineering knowledge to practical, applied use.

## **EDUCATION**

Ph.D., Biostatistics 2019 - 2022

University of California, Los Angeles

Master of Science (M.S.), Biostatistics 2017-2019

University of California, Los Angeles

Bachelor of Science (B.S.), Applied Mathematics and Statistics 2012 - 2016

California State Polytechnic University, Pomona

## SKILLS AND INTERESTS

Skills Production and Manufacturing Engineering,

Interests Mechanical Part Design, Quality Control and Assurance, Flexible and Unconventional

Manufacturing Systems, Metallurgy and Material Sciences.

Design Software Autocad, ProE, SolidWorks, Catia, ANSYS, HyperWorks.

Platforms MS Office, C.

#### **PROJECTS**

Mathematical Modeling of a Mechanical Vibration System and Solutions using Numerical Methods, September 2017 - Ongoing

Major Project

- · A beneficial solution for the problems face by tractor and truck drivers.
- · Vibrational modelling and optimization of vehicle components using differential equations.
- · Providing solutions for the differential equations using numerical methods.
- · Improve Driver comfort and reduce fatigue.
- · Reduce the chance of getting affected by any orthopedic irregularities .

Friction Stir Welding of High Strength materials: Tool holder development, May 2017 - July 2017 Internship project

- · An Industrial Defined Project in collaboration with Institute for Plasma Research, Gujarat.
- · Development and optimization of machine tools for advanced technologies.
- · Development of manufacturing technology for usage in Plasma and Nuclear reactors.
- · Probing the possible alternative solutions of potential welding techniques.
- · Direct involvement in Space Applications Center, ISRO, Ahmedabad.

# INTERNSHIP/TRAININGS

# POSITION OF RESPONSIBILITY

Head of Drafting department, KLU - MESA.

Coordinator and Wing Coordinator in national level technical fest YANTRIK.

Organizer and Coordinator in national technical fest SAMYAK.

School Sports Captain in Class XII

April 2013 - March 2014

# **EXTRA-CIRRUCULAR ACTIVITIES**

Hosted and participated in YANTRIK.	2016  and  2017
Hosted and participated in SAMYAK.	2016  and  2017
Participated in International Conference on Recent Advances in Composite Materials.	February 2017
Participated in Student Led Design Challenge, ASME in CBIT, Hyderabad	October 2015
Attended workshops on Catia, Hyperworks and SolidWorks	${\bf September 2015}$
Achieved an All India percentile of 86.9 in National Creativity Aptitude Test.	March 2015
Won Bronze medal in Kendriya Vidyalaya Sangathan, National Sports meet in Table Tennis	October 2013