

Steven Campos

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

JUNE 2019

- Bachelor of Science in Aerospace Engineering
- Related coursework: Fluid Dynamics, MATLAB, Materials Science, Aerodynamics, Wind Tunnel Lab, Propulsion, Flight Dynamics and Stability, Aircraft Performance, Control Theory

ENGINEERING EXPERIENCE

SOLAR AIRPLANE

JANUARY 2019-APRIL 2019

- Helping finalize wing design by performing non-dimensional analyses, reviewing concept designs and numerical data.
- Created manufacturing process for wings to ensure proper handling during construction and cutting
- Designed NACA 6412 airfoil for testing in wind tunnel with taper ratio being used in actual wing model

ROCKET PROJECT

APRIL 2017-DECEMBER 2018

- Designed preliminary concepts for Parachute Ejection System and assisted with pneumatic system
- Part of sub-team using load cell to test thrust for engine performance during static test fire
- Assisted with manufacturing, sanding and refining of female mold for the rockets nose cone and built circular ribs for the body of the rocket used for parachute container
- Edit assemblies for the top section and bottom plumbing of the test stand using Solidworks

MAE AEROSPACE LAB

APRIL 2018-JUNE 2018

- Team lead for experiments in the UCI wind tunnel involving a variety of shapes, wing designs, slat and flap configurations as well as organized tasks for team members
- Learned how to analyze the behavior of aircraft through different properties such as drag, lift, angle of attack and speed
- Analyzed the performance of a Clark 2412 with different winglet configurations at two different Re

DESIGN BUILD FLY

APRIL 2016- MARCH 2017

- Participated in a UCI student Project with the goal of designing and fabricating an aircraft able to accomplish tasks and objectives such as carrying a payload and completing 3 laps around a course
- Assisted in Launch Tube and Motor Mount Team helping design preliminary designs for aircraft and helped fabricate composite layups
- Worked on making Carbon Fiber molds for the motor mount and tested unique design

WORK EXPERIENCE

ASSEMBLY TECHNICIAN-LASERGRAPHICS INC.

JUNE 2017-NOVEMBER 2017

- Built assemblies and created efficient building instructions to make process easier for others
- Tasks included modeling on Solidworks, inspecting parts, soldering wires and components for circuit boards
- Communicated better manufacturing process with fellow workers to ensure deadlines were achieved