Samuel Morice
1545 Jade St. Apt. #201 • Davis, CA 95616
(760) 209-4297 • sdmorice@ucdavis.edu

Education

- **University of California, Davis** — **Davis, CA**
  M.S. Mechanical and Aerospace Engineering — *2016 – Current*
    - Viscous Flow Control for Stall Management

- **University of California, Davis** — **Davis, CA**
  B.S. Mechanical and Aerospace Engineering — *2012-2016*
    - Engineering Dean's List: Fall 2012, Winter 2013, Fall 2015

Experience

- **UC Davis Center for Human/Robotics/Vehicle Integration and Performance** — **Davis, CA**
  Graduate Student Researcher — *2016 – Current*
    - Researching boundary layer separation control using autonomous vortex generators
    - Leading a team of undergraduate engineering students to perform wind tunnel tests in the UC Davis subsonic Aeronautical Wind Tunnel
    - Writing and preparing wind tunnel test plans and procedures
    - Manufacturing and instrumenting a wing model to use in the wind tunnel
    - Designing and building a mechatronic system to activate vortex generators on the test section
    - Working with micro controllers to collect and process data from microphones
    - Writing Python scripts to analyze experimental data
    - Upgrading the current wind tunnel to meet the needs of my experiments
    - Writing a thesis that details the experiments done and the results obtained from the experiments

- **IMPROVE Air Quality Network at UC Davis** — **Davis, CA**
  Student Field Technician — *2015-2016*
    - Repaired vacuum pumps, electronic circuits, and specialized air sampling equipment in a workshop setting
    - Tested repaired equipment to ensure quality before sending the equipment to the remote sampling sites
    - Traveled around the country to remote air quality sampling sites
    - Performed routine maintenance on the air sampling equipment while at the sampling site

- **Hunter Industries** — **San Marcos, CA**
  Engineering Intern — *Summer 2014*
    - Assisted the senior engineers by working on pending projects
    - Implemented design changes that improved the irrigation controller product
    - Designed and performed tests and trade studies that led to a product redesign which went into production
    - Gained 3D CAD and plastic injection molded part design skills using PTC Creo Parametric

- **Hunter Industries** — **San Marcos, CA**
  Machine Shop Intern — *Summer 2013*
    - Assisted the machinists by completing tasks around the machine shop
    - Operated manual Bridgeport mills, manual lathes, and Hass CNC lathes.
    - Learned 3D modeling using PTC Creo Parametric and SolidWorks

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Core Technical Skills

Programming Languages: Python, MATLAB, LaTeX, C, HTML5, CSS3
Fabrication: Manuel and CNC mill and lathe, soldering, 3D printing