

Education

- **University of California Irvine**, Irvine, CA
B.S. in Mechanical Engineering **June 2014**
Specialization: Energy Systems & Environmental Engineering
 - **Texas A&M**, College Station, TX **Fall 2015-Present**
M.S. in Mechanical Engineering
 - **Coursework:** Matlab, Material Sciences, Solidworks, Thermodynamics, Fluid Dynamics, Mechanical Behavior & Design Principles, Control Systems, Technical Writing, Atmospheric Chemistry, Fuel Cell Technology & Electrochemistry, Additive Manufacturing
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Skills

- Programming: Proficient in Matlab
 - CAD: Proficient in SolidWorks
 - Electrical Circuitry
 - 3D Printing
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Notable Projects

- **Fuel Cell Senior Design Project** **September 2013-June 2014**
Researcher Exploring the viability of using hydrogen and PEM fuel cells as storage for intermittent alternative energies like solar and wind power. Investigation of alternative uses for waste water and heat from PEM fuel cells. Also, finding optimal cooling methods to achieve maximum efficiency of PEM fuel cells.
 - **MAE 106: Semi-Autonomous Piston Driven Robot** **Spring 2013**
Electronics Designer Worked with a team of 5 mechanical engineering students to design a small piston driven car that would propel itself to a given destination. Mainly designed the electrical system that provided power to the piston and motor control
 - **MAE164 Atmospheric Chemistry Final Project** **Winter 2014**
Create an atmospheric model in Matlab that dynamically simulates the evolution of ethene (C₂H₄) emissions and other species in the urban airshed using a wide range of initial ethene concentrations. This was done to help identify a proper ethene and NO_x mitigation strategy that provides the greatest benefit to ambient air quality.
 - **Solidworks Product Design Project** **Spring 2014**
Use Solidworks to design a product and do FEA and other various stress analyses on the product. A prototype was 3D printed using the Fused Deposition Modeling (FDM) method and a proof of concept was made.
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Areas of Interest

- Anything in the field of Mechanical Engineering, particularly sustainable energy, power generation, and thermal management.