

Kevin Russell

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- Education:** Embry-Riddle Aeronautical University Daytona Beach, FL
Master of Aerospace Engineering Expected: Dec 2010
Bachelor of Science Aerospace Engineering Expected: Dec 2010
Undergraduate Area of Concentration: Aeronautics Minor: Mathematics
Graduate Area of Concentration: Aeronautics and Propulsion
Accelerated Masters Program
Undergraduate GPA of 3.53/4.00
Graduate GPA of 3.67/4.00
- Relevant Coursework:** **Graduate Coursework:** Advanced Compressible Flow, Turbine Engine Systems, Thermal Stresses, Linear Systems Theory, Strength and Fatigue of Materials.
Undergraduate Coursework: Incompressible Aerodynamics, Compressible Aerodynamics, Aircraft Stability and Control, Dynamic Controls, Aircraft Preliminary Design, Aircraft Detail Design, Aerospace Structures I & II, Aerospace Materials, Turbine and Rocket Engines.
- Project Experience:** **Green Aircraft Design Project:** A lead member of a university team modifying a Stemme-S10 high performance glider to meet, an efficiency requirement of 200 passengerMPG while averaging speed of 100mph for a NASA funded competition. Team leader designing an electric propulsion system incorporating li-ion batteries, hydrogen fuel cells, and solar panels.
Synthetic Jet CFD Research: Using ANSYS CFX to conduct CFD simulations of a large-scale transient computational fluid dynamics problem. Attempted to match experimental as well as theoretical results. Tasks included grid generation, solver setup, and post processing.
OpenAE.org Contributor: Assisting with content creation and improvement of free open-source aeronautical engineering related software for use by the professional engineering community. Wrote M.F.E.S.3D, a MATLAB finite element program. Assisted on a DATCOM expansion project to create a user-friendly GUI, and three-dimensional output files for first iteration flight-testing simulation.
Equator Aircraft Consultation: Collaborating with openae.org to perform aerodynamic analysis and revision to a high performance boat plane. Work includes preliminary aerodynamic design work, as well first iteration CFD design work.
- Skills:** **MATLAB:** Experienced with MATLAB; have used the program to study orbital mechanics, aerospace structures, numerical analysis, and for a variety of other purposes.
NEiNASTRAN: Used to analyze the deflections and stresses in various structures.
CATIA: Designed 3D parts to meet various structural design requirements; finite element analysis.
ANSYS CFX: CFD analysis of flow patterns of transient events; reproduction of experimental data.
DATCOM, Gridgen, TetrUSS, MicroCFD, Fluent, Excel, C++, AutoCAD, Unix, Linux.
- Honors:** **Deans List:** Fall 2006, Spring 2007, Fall 2008, Spring 2008, Fall 2009, Spring 2009
- Work Experience:** Collier Rehabilitation Systems Inc. Pleasant Hill, CA
Property Manager July 2007-Present
Responsible for maintenance and oversight of a residential property, communication between owner and tenants, and facilitating improvements to the property.
- Interests:** Hypersonics, space access, endurance running, skiing, history, scouting, the outdoors.