MIKE MOORE

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EDUCATION

University of Texas, Austin *Dec 2010*
B.S. in Aerospace Engineering
GPA: 3.32

University of Houston Clear Lake *On going*
Graduate Courses in Computer Engineering
GPA: 3.75

EXPERIENCE

L3 Stratis January 2010 - Present
Software Modeling and Simulation Engineer *NASA Johnson Space Center (JSC) - Houston, TX*

- Modeling and simulation developer working within JSC ER-7. This is the branch within JSC's Engineering and Robotics division that is responsible for software and simulation.
- Currently part of a team of eight to ten engineers who develop complete space vehicle simulations in order to model and evaluate proposed vehicle designs intended for NASA deep space and Mars missions.
- Lead the team's power, thermal, and life support system modeling efforts.

University of Texas Center for Space Research June 2010 - December 2010
Student Researcher *Austin, TX*

- Student research assistant. Helped graduate students and post-docs process and analyze data from the pair of GRACE satellites (Gravity Recovery and Climate Experiment). These satellites were a collaboration between NASA and U.T. Austin. They launched in 2002 and are still returning scientific data.
- Work included writing scripts to process large data sets associated with the performance of the GRACE satellites' thermal control system, and scientific sensors on-board.

United Space Alliance December 2009 - August 2009
Navigation and Flight Operations Co-Op *Houston, TX*

- Supported the Space Shuttle navigation flight controller operations team as a Co-Op.
- Built a model and then simulated the Lunar Reconnaissance Orbiter's planned trajectory in order to investigate the application of Kalman Filters and batch processing techniques for lunar spacecraft navigation.

TECHNICAL STRENGTHS

Dynamical Systems Modeling	Thermal, Electrical, Fluidic, and Control system modeling.
Embedded Hardware	TI TMS320 C2000, TI Code Composer Studio, Arduino
Lab Skills	Signal generators, oscilloscopes, logic analyzers, soldering.
Programming Languages	C/C++, VHDL, C#, Java, Python, JavaScript, Matlab
Misc Programming Tools	Vi, Visual Studio, Eclipse, Git, SVN, Jenkins, Matlab, LaTeX

WEB LINKS

Quad Copter Flight Test	https://www.youtube.com/watch?v=c9tHnrJNVy0
Quad Copter 3D Simulation	https://www.youtube.com/watch?v=864sEgLVOQA