

# Joshua David Graves

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**OBJECTIVE** A position in the field of nuclear or mechanical engineering with special interests in system thermal response, scaling analysis, thermal hydraulics and computational methods.

**EDUCATION** *Bachelor of Science, Nuclear Engineering*  
University of Tennessee, Knoxville, TN, August 2006-July 2010  
3.37 GPA

*Master of Science, Nuclear Engineering*  
Oregon State University, Corvallis, OR, September 2010-December 2012  
Thesis: *Top-Down Scaling Analysis of the Integral Reactor Vessel Test Facility*

**COMPUTER SKILLS** *Languages & Software:* FORTRAN, Python, MCNP, CASMO, Simulate, MatLab, Simulink, HTML5, CSS, SCALE Suite, STAR-CCM+  
*Operating Systems:* Microsoft, Linux.

**LANGUAGE SKILLS** *Languages:* French: Written and spoken proficiently.

**EXPERIENCE** *Research Assistant* Fall 2010- Fall 2012  
Oregon State University, Nuclear Engineering Department, Corvallis, OR

- Developed all communications between research team and sponsor. This included oral participation via teleconference, written communication through technical and status reports, and gave presentations.
- Researched scaling for integral heat transfer systems and its applications to a liquid sodium fast reactor system.
- Developed grant proposals for the pursuit of further research from national organizations.
- Assisted undergraduate students, including the teaching of several classes.

*Research Intern* Summer 2012  
Oak Ridge National Laboratories, Global Nuclear Safety Technologies Division, Oak Ridge, TN

- Performed and conducted research under the supervision of Dr. Alex Enders to advance and inform nuclear non-proliferation efforts for the Second Line of Defense program.
- Collected, organized and analyzed experimental data achieved during experimentation.
- Procured necessary materials to conduct experiments.

*Research Intern* Summers 2009, 2010  
Oak Ridge National Laboratories, Global Nuclear Safety Technologies Division, Oak Ridge, TN

- Conducted research under the supervision of Dr. Jake Livesay to characterize nuclear detection effects of meteorological events.