

Kev N. Spacey

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Objective

Obtain an entry-level engineering physicist position at The Boeing Company

Education

Embry-Riddle Aeronautical University (ERAU)

Prescott, AZ

Bachelor of Science in Space Physics

Graduating December 2012

Area of Concentration: Particle Physics & Cosmology

GPA 3.94/4.00 while working 35-40 hours per week

Relevant Courses

Thermodynamics & Statistical Mechanics, Modern Physics (and Lab), Computational Methods for Physicists, Electromagnetism (I & II), Classical Mechanics, Quantum Physics (I & II), Optics Lab, Particle Physics & Cosmology (I & II), Atomic/Nuclear Physics, Particle Physics Senior Lab, Astronomy, Planetary Physics, Astrophysics (I & II), Vector Calculus and Fourier Series, Partial Differential Equations, Linear Algebra, Engineering Probability and Statistics

Skills

Programs: MatLab, Mathematica, AutoCAD, SolidWorks, Excel

High Powered Model Rocketry: Designed, built, and launched numerous complicated rocketry systems

Machine Shop: mill, lathe, band saw; worked both metal and wood

Relevant Projects & Publications

NASA Space Grant Research: Electromagnetic Rocket Launcher Development 2008-2009

- Designed & tested linear motor rocket launcher in cooperation General Atomics and NASA Dryden.
- Fabricated hardware for the linear motor project and built rockets which were launched.

NASA Space Grant Research: Experimental Physics 2006-2009

- Designed a Cavendish balance experiment for the determination of impulse released from antimatter annihilations with Dr. Darrel Smith. Presented this work at 2007 NASA Space Symposium in Phoenix, AZ. Published in AIAA Conference Proceedings [AIAA 2007-5604].
- Designed and built a new laboratory, complete with a vacuum chamber and standard equipment for use with Cavendish balance.

Laser Interferometer Gravitational-wave Observatory (LIGO) Research [NSF Grants] 2007-Present

- Designed single-arm Zöllner torsion pendulum for use in a uniform gravitational field to search for Lorentz violations in general relativity.
- Investigated complicated dynamics of the system analytically, and verified against experiments.
- Assembled a high vacuum system with a pneumatic valve and interior support structures to house the Zöllner torsion pendulum.
- Presented research at 2008 Young Physicist Symposium at UC Berkeley.

Employment & Leadership

Research Assistant –LIGO Project, Cavendish Balance, Linear Motors, ERAU [NSF Grants]2006-Present

Tutor (Physics, Chemistry, Mathematics), ERAU

2006-2009

Teaching Assistant, Engineering Physics Lab, ERAU

Fall 2009

Awards

Sigma Pi Sigma – National Physics Honor Society inductee, Fall 2012

Resident Assistant of the Year, 2010-2011, ERAU Housing & Resident Life Staff