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David Grayson

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EDUCATION

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- University of Illinois at Urbana-Champaign (UIUC)** graduated December 2007
- Degree: B.S. in Engineering Physics
 - GPA: 3.85 out of 4.00
- University Laboratory High School** at the UIUC graduated May 2004

SKILLS

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- **Physics:** electromagnetism, quantum, classical, classical lab
 - **Computer Programming:** Ruby on Rails, HTML, MySQL, Javascript, website design, C, PHP, Facebook API. Using Linux
 - **Mathematics:** rigorous proofs, real analysis, differential equations, geometry, linear algebra
 - **Lab skills:** soldering, electronics, oscilloscopes, pipetting, and eagerness to learn
 - **German language**

PHYSICS EXPERIENCE

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- **Student Researcher — REU Program, Physics Dept., University of Rochester** Summer 2007
 - Built five balance detectors (which are currently being used in an experiment)
 - **Laboratory Assistant — Condensed Matter Laboratory of Dr. Andy Granato, UIUC** Fall 2006
 - Ran and maintained a cryostat experiment.
 - **Intern — Physics Division, Argonne National Laboratory** Summer 2006
 - Found new candidates for transitions in Nobelium-254 nucleus
 - Contributed bug fixes and new features to Gammasphere analysis software
 - **Engineering Council Representative — Physics Society, UIUC** 2005–2007
 - Represented Physics Society at Engineering Council (Fall 2006–present)
 - Led the Theremin exhibit group for Engineering Open House (2nd place in its category)
 - Secured funding for social events and projects
 - **Student Researcher — REU Program, Theoretical and Applied Mechanics, UIUC** Summer 2005
 - Created, ran, and analyzed results from a computer simulation of granular materials
 - **Laboratory Assistant — Biophysics Laboratory of Prof. Robert Clegg** 2004–2005

OTHER EXPERIENCE

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- **Airshifter — WEFT 90.1 FM Community Radio for East-Central Illinois** 2008–present
 - Hosts a weekly two-hour world music show
 - **President — Sassins (sassins.com)** 2005–present
 - Created and managed a web start-up company for running assassins games
 - Over 1800 players from 3 different countries
 - **President — Funproductive (funproductive.com)** 2008–present
 - Programmed Adobe Flash client and streaming video server using HaXe to distribute real-time video to website visitors
 - **Lead Programmer — Rosetta Interpreters (rosettainterpreters.com)** 2007–2008
 - Programmed a mashup of Ether.com and Ning.com and a Google Gadget for a start-up company offering over-the-phone interpretation services
 - **Campus Honors Program Intercultural Study Tour to Japan** Summer 2007
 - **Engineering Learning Assistant — College of Engineering, UIUC** Fall 2006
 - Taught a freshman orientation class of 15 Physics students (ENG 100)

AWARDS

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- **1st Place Team**, Google Games competition, UIUC Spring 2007
 - **H. R. Brahana Prize in Mathematics.** \$1000 prize Spring 2007
 - **Barry M. Goldwater Scholarship**, Honorable Mention Spring 2007
 - **Elizabeth R. Bennett Scholarship in Mathematics.** \$250 prize Spring 2006
 - **2nd Place** (tie), Undergraduate Math Contest, UIUC. \$200 prize Spring 2006
 - **1st Place** (tie), Undergraduate Math Contest, UIUC. \$250 prize Spring 2005
 - **Chancellor's Scholar** 2004–2007