Luke A. Wortsmann

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EDUCATION

University of Illinois at Urbana Champaign   August 2014 – Present
Bachelors of Science, Engineering Physics
Minor: Mathematics
Expected Graduation: May 2017
GPA: 3.74

Glenbrook South High School   August 2010 – June 2014
GPA: 4.2
ACT: 35

EXPERIENCE

Undergraduate Researcher   Center for Complex Systems Research
Dec 2014 – Present   Urbana, IL

- Utilized Mathematica and Matlab to develop a model for quantum noise in optical sensors
- Researched the Coulomb blockade in Nanocapacitors
- Worked under Dr. Alfred Hubler, produced and presented weekly reports for the research group

Quantitative Trading Internship   KCG Holdings
May 2016 – Aug 2016   Chicago, IL

- Developed and implemented a variety of statistical models to analyze US equities data
- Utilized Python and Vertica to analyze hundreds of gigabytes of complex datasets
- Presented my analysis and research to a global team of traders

HONORS & AWARDS

- The Dean's List, *College of Engineering*   Spring 2015, Fall 2015, Spring 2016
- James Scholar   Spring 2015 – Present
- Eagle Scout, *Boy Scouts of America*   Fall 2013

SKILLS

- **Languages**: Mathematica, Python, LaTeX, R, Javascript, Matlab, Java, C++.
- **Software & Packages**: Pandas, TensorFlow, Node.js, MySQL, Vertica, Unix, Autodesk, Photoshop
- **Coursework**: Numerical Analysis, Probability Theory, Differential Geometry, Quantum Mechanics, Electrodynamics

PHILANTHROPY

The Gift of Water   2012 – Present

- Traveled to Haiti to distribute water filtration systems, provide education, and collect data
- Organization supports over 100 communities in Haiti