

Patrick J. Nollen

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Summary Analytic and personable graduate, seeking an opportunity to combine my passion for complex problem-solving, ability to understand issues from multiple perspectives, and talent for keeping a team working productively, in a diverse and innovative setting where I can add value and grow.

Education The Pennsylvania State University: University Park, PA
Bachelor of Science in Engineering Science (Honors, Multidisciplinary) and
Bachelor of Science in Physics (Double Major)

- Minors: Engineering Management, Nanotechnology

Expected Graduation: **May 2016** Cumulative GPA: 3.74/4.00
Dean's List: 2011-2015, except Spring 2014
National Society of Collegiate Scholars and Tau Beta Pi honors societies invitations

Relevant Coursework:

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|---|---|--|
| o Physics: Kinematics, E&M, Waves | o Failure Analysis of Engineering Materials | o Electrodynamics and Magnetism (Phys 400) |
| o Research & Calculations: Ballistics, and Condensed Matter Physics | o Physics Lab working with NMR, superconductors, etc. | o ENGR Mechanics: Statics, Dynamics, and Materials |

Experience Zombie Ants Research Grant, Professor David Hughes and Francesco Costanzo Summer 2015

- Designed ballistics code system to track intersections between hundreds of particles
- Simulated fluid flow around various projectiles to determine drag coefficients

Geophysics Mentee, John Sneider, Geophysicist, Sneider Exploration, Inc. Summer 2014

- Assisted in data organization for research project on fluid flow in porous media
- Ran calculations to find the relationship between flow rate and pore size

Engineering Internship, H.J. Heinz, North America Division, Warrendale, PA Summer 2013

- Focused primarily on design of the Freemont Factory's well-water purification project
- Organized the Massillon Factory's equipment to prepare for lower kitchen renovations

Tutor, Student Support Services Program The Pennsylvania State University 2012-2013
3-6 hours/week for Spring/Fall Semesters. (University Park, PA.)

- Led tutoring sessions in physics and multivariable calculus as a Freshman/Sophomore
- Tailored lessons to expedite learning and improve performance

Stocker, Giant Eagle Supermarket, Cranberry, PA Summer 2012

- Maintained store inventory levels

Activities Member, E-House (engineering special living option) 2011-2015
Participant, Student United Way

Technical Skills

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|-------------------|--------------|-------|
| • MS Office Suite | • Matlab | • C++ |
| • Basic Circuitry | • SolidWorks | |

