

September 16, 2017

John L. Waczak

CONTACT INFO	E-mail: waczakj@oregonstate.edu 12231 SW Pond Lane King City, OR, 97224	Phone: (503) 330-1280 LinkedIn: www.linkedin.com/in/john-waczak/
INTERESTS	Computational Physics, Applied Mathematics, Spectroscopy	
EDUCATION	Oregon State University , Corvallis, OR. Bachelor of Science in Physics and Mathematics	September 2015 – present (GPA 3.90/4.0)
TECHNICAL SKILLS	Programming and Scripting: Python, C++, C#, Mathematica, MS Word, MS Excel, Numpy, Matplotlib, SQLite, PID control, Modbus serial protocol Electronics: Arduino, Raspberry Pi, Nation Instruments, Soldering, basic circuit design	
EXPERIENCE	Roundy Research Group , Oregon State University <i>Undergraduate Researcher</i> I am working with Dr. Roundy to develop and test computational simulations which evaluate a physical model for the locomotion of the cellular motor protein Dynein. My duties include editing simulation code (C++), writing scripts to analyze and visualize large data sets (python), exploring the simulation space to find the best set of parameters to produce <i>physical</i> behavior, and presenting my findings at weekly group meetings.	January 2017 – Present github.com/john-waczak/dynein_walk
	Cooper Environmental Services , Beaverton, OR <i>Intern</i> I designed and implemented controller logic (using a PID loop) for controlling a vacuum pump through C# in conjunction with a National Instruments IO board. Using Modbus serial communications protocol, I created code to make data accessible locally with a Modbus slave device. I wrote code using SQLite to send the same data to a local database for long term storage. I worked with production to solder wire assemblies that are used in the Xact.	March 2015 – September 2017
	Physis 199 TA , Oregon State University I served as one of two undergraduate TA's for the PH199 class designed for freshmen physics majors. I helped coordinate lab tours, talks from professors, and career workshops. In the final class, I organized a panel of fellow upper-division students to allow the class to ask questions about the major and what to expect.	January 2017 - April 2017
	Physics Exam Proctor , Oregon State University During the midterms and finals weeks I serve as an exam proctor. I meet with the professor, go over exam questions as well as suitable answers to potential questions. I administer the exams in the test room and ensure there is no cheating.	September 2016 – Present
ACTIVITIES	Lambda Chi Alpha (AXA) Vice President I am the current Vice President of the Alpha Lambda chapter of Lambda Chi Alpha Fraternity. We are a 140 man organization devoted to building leaders and serving our community. My duties as VP include organizing weekly brotherhood events, presenting each week during our chapter meetings, talking with Alumni, and administering various executive committee responsibilities. Society of Physics Students Member, Mentor As a mentor, I am paired with a new undergraduate physics major whom I help acclimate to university classes (expectations, resources, class suggestions, etc...) Sigma Pi Sigma (ΣΠΣ) National Phycsis Honor Society member Community Outreach Inc. Corvallis, OR - Volunteer	September 2015 to Present September 2015 to present June 2017 to present September 2015 to present
AWARDS	Lambda Chi Alpha - Alpha Lambda Chapter Freshmen of the Year Awarded for grades, involvement, and overall chapter vote. Oregon State honor roll Awarded for achjeiving above a 3.5 GPA and being enrolled in a minimum of 12 credit hours per term.	June 2016 2015-present