

Eugene Halpin

161 Autumn Ridge Drive, Wendell, NC 27591 • (315) 263-2128 • ejhalpin3@gmail.com

Technical Skills

Skills:

- Proficient with JavaScript (es6+), jQuery, AJAX, HTML/CSS, Java (8, FX), API integration, Node
- Familiar with PHP, Python, MySQL, SQL
- Strong understanding of web app development, object-oriented design, RESTful services and APIs, internet architecture, algorithms, and data structures

Tools:

- VS Code, Git, Firebase, Chrome DevTools, NetBeans, Eclipse, Bash/Shell/Terminal, CLI's
-

Professional Experience

Mentor, Team 5340, FIRST Robotics Competition, Minneapolis, MN October 2014 – May 2018

Worked with high school students to design, fabricate, and code a robot for competition. Coached students on the principles and values of FIRST while introducing them to 3D printing, CAD, mechanical, electrical, and software engineering and design. Operated on a minimal budget and developed a competitive team by building relationships with Medtronic and a host of local businesses, other FIRST teams, and parents.

Adjunct Faculty, Physics Department, Saint Thomas University, Saint Paul, MN September 2017 – May 2018

Curriculum development of introductory physics for an integrated lecture and lab environment designed to meet the education requirements of life sciences majors. The incorporation of regular formative and summative assessments was utilized to provide feedback to students in a short timeframe.

Interagency coordination for a special project to integrate new and existing technology into the classroom environment in a way that dovetailed with existing infrastructure. Worked closely with the campus IT agency to seek solutions to network and printing issues while simultaneously coordinating with faculty within the physics department to determine needs and set timelines for completion. Successfully resolved printing issues in the department classrooms and developed a roadmap for further equipment integration.

Assistant Manager In Training & Warehouse / Shop Technician, Frattallone's Ace Hardware, St. Paul, MN September 2016 – May 2017

Shop technician in a satellite warehouse tasked with the repair and fabrication of screens and windows, maintaining warehouse stock and delivering product to retail location on demand, ensuring materials and supply levels for shop are met, maintaining quality assurance on repaired windows and screens, shipping and receiving deliveries and managing inter-store transfers, and providing excellent customer service to window and screen repair clientele.

Assistant Manager in Training tasked with mastery of the retail inventory control system, providing excellent customer service and sales, following display diagrams to ensure correct product placement, managing seasonal items to ensure proper stock is on display, working closely with a small team of managers and associates to carry out the day to day tasks within the store.

Physical Science Teacher (6th Grade), Ramsey Middle School, St. Paul, MN August 2015 – June 2016

Successfully developed and implemented curriculum that met the outlined benchmarks for 6th grade science education, established a culture of mutual respect to maximize learning, incorporated classroom management techniques that placed the student at the center of the lesson and utilized restorative justice practices, enhanced the student learning experience through technology integration, demonstration, and collaborative learning practices. Developed community engagement curriculum as a member of the IB-MYP committee. Excelled at developing meaningful relationships with students and faculty members.

Physics & Environmental Science Teacher; Educational Assistant, FAIR School Downtown, WMEP, Minneapolis, MN August 2014 – June 2015

Successfully developed and implemented physics and environmental science curricula that met state education benchmarks while building a culture of inclusion and respect in the classroom by incorporating strong classroom management techniques centered in the principles of restorative justice. Provided classroom support and tutoring services to students with disabilities. Excelled at developing meaningful relationships with students and faculty members.

Long Term Substitute, Convent of the Visitation School, Mendota Heights, MN, February 2014 – July 2014

Successfully delivered high quality college preparatory physics and environmental science instruction in an integrated lab-lecture environment. Contributed to the growth and success of the science department through curriculum review and development, event coordination, and school-wide presentations. Managed classroom inventory and lab equipment maintenance.

Copy Editor, Cactus Communications, November 2013 – March 2014

Checked professional scientific publications for formatting, grammar, and layout. Utilized Microsoft office suite of tools to provide markups and comments in Word and PowerPoint. Developed proficiency with Adobe Acrobat.

Instructor & Lab Coordinator, Physics Department, Virginia Polytechnic Institute & State University, Blacksburg, VA January 2010 – January 2014

Operated in a train the trainer role to coach graduate students on the best practices of introductory lab instruction and provided feedback to better the student laboratory experience. Became a quality control and assurance agent for the introductory lab curricula. Developed and published new labs for use in the Foundations of Physics courses. Managed a workforce of 50+ graduate students, providing scheduling, conflict resolution, performance reviews, and support. Operated at the direct interface between the 1000+ students enrolled in introductory lab courses and the physics department, answering emails and holding regular office hours, mentoring students on success strategies, and scheduling makeup lab sessions. Managed confidential grades for all enrolled students and analyzed grades regularly throughout the academic year, alerting the students and college of any potential negative trends in student performance while ensuring consistency of grading across lab sessions. Successfully delivered high quality introductory physics instruction in a large lecture environment while building meaningful relationships with students and providing support to those who struggled in the course.

Samples and Projects

A complete list of my projects and samples of my work can be found on my profile page:
<https://ejhalpin.github.io>

Education

Full-Stack Web Development Certification, UNC Coding Bootcamp, 2019

M.S., Physics, Virginia Tech, 2008

B.A., Physics, SUNY Potsdam, 2006