

Student — Massachusetts Institute of Technology (2014-2018)

- Dublin High School (2010-2014; 4.60 GPA)

Work Experiences

Cybersecurity Intern — Naval Postgraduate School Center for Cyber Warfare (Summer 2013)

- Investigated Windows operating system security
- Used the C++ programming language to write and test malware

Cell Biology Researcher — UC Davis Department of Molecular Biosciences (Summer 2012)

- Studied Huntington's disease in an independent project
- Used cell culture, microscopy, and densitometry analysis; documented and presented findings

Engineering Experiences

VEX Robotics Captain — Robotics competition teams 5327C & 5327A (2011-2014)

- Led peers in designing, building, programming, and testing a VEX competition robot
- Documented design process in engineering notebook
- Modeled design decisions using 3D mechanical design software
- *Division Champion* - VEX Robotics World Championship (2014)
- *Design Award, Tournament Semifinalist* - VEX CA State Championship (2014)
- *Judges' Award* - VEX Robotics World Championship (2013)
- *Excellence Award, Tournament Finalist, Programming Skills Champion* - VEX CA State Championship (2013)

Developer — Robotics engineering notebook website (2013-2014), scouting database website (2012-2013)

- Designed and created online system for keeping track of robotics team meetings to replace paper notebooks
- Led team in creating internationally recognized robotics scouting database using PHP, MySQL, CSS

Maker — Home automation project (2013-2014), Quadcopter UAV (2014)

- Developed system to control bedroom's lighting, music, and alarms using a Raspberry Pi server
- Constructed web interface and NFC-based control system using PHP, JQuery, Bash scripts
- Built quadcopter from scratch as a short summer project

Special Olympics Volunteer — Soccer & basketball machine design team (2012-2013)

- Designed, built, tested, and demonstrated machines to help local Special Olympics student-athletes
- *First Place & Best In Engineering Category* - Alameda County Science Fair (2013)

Leadership Experiences

Officer & Founding Member — Dublin High School Robotics Club (2010-2014)

- Created club website and collaborated on outreach, sponsorship, and publicity efforts

Skills & Coursework

- Java, Python, PHP, CSS, HTML, JavaScript, C, C++, Git, LaTeX
- Autodesk Inventor 3D mechanical design software, Adobe Photoshop, Word, Excel, Publisher
- 6.01 (Intro to EECS I), 8.02 (Physics II), 18.02 (Multivariable Calculus)

Other Honors

- *Best Education App* - HSHacks (2014)
- *First Place* - CA State PLTW Engineering competition (2011)