

Education **Dublin High School**, 4.56 Cumulative GPA 2014-2018

- AP Computer Science
- AP Calculus BC
- Linear Algebra
- AP Statistics
- Number Theory
- Multivariable Calculus

Work **Zingbox** — *Software Intern* 2017

Programmed a test suite for UI using Python and Selenium
Created database query interface for Splunk

Engineering **Dynosaur** 2016-2018

Researched optimization techniques to teach a bot to play the Google Dinosaur Runner Game
Designed a interactive web dashboard to monitor the bot as it learns

Sandwich Lecture Analysis 2015

Created a natural language processing web application that finds pertinent information on college lectures like key words and supplemental texts

VR Bowl Hackathon Project 2015

Built a bowling simulator that knocked over physical pins based off the path of a simulated ball
Gathered arm muscle data to calculate ball path and activated pins with a microcontroller

Projects H and I Special Olympics Robots 2015

Designed robots to shoot basketballs and soccer balls for local Special Olympics participants
Studied ball launch data to calculate projectile arcs and paths

VEX Robotics Team 5327A 2014-2015

Worked with team to design, build, and document a robot to compete in VEX Skyrise Competition
Qualified for both State and World Championships

VEX Robotics Rerun Algorithm 2014-2015

Developed system to reconstruct manual robot driving patterns and replay as autonomous execution in C

Awards FBLA State Leadership Conference 4th Place, Network Design 2016

USA Computing Olympiad Gold Division 2016

VEX World Championships Judges' Award, Arts Division 2015

HSHacks Top 3, Hardware Hacks 2014

Skills Python, Java, C, C++, Javascript, PHP, Angular, HTML, CSS, MongoDB, Flask, Node.js, Git, Linux, \LaTeX