

Previous Experience:

2018, **Silicon Labs**, Intern, Austin TX

- Automated the simulation of the current/voltage/capacitance of devices corresponding 1:1 with existing raw data
- Used Python to process both measured and simulated data. Worked with SpectreMDL, SKILL, and Ocean in order accurately simulate devices. Created visualization tools using Python and HTML5
- Created new tools to dynamically explore and visualize large data sets
- Worked with a small team of programmers and engineers to set and meet developmental milestones

2017, **Vast**, Intern, Austin TX

- Utilized existing databases to both create predictive models for pricing and generate reports for users
- Tracked advertising funnel development and conversion rate metrics
- Setup and maintained backend infrastructure, including integration of existing APIs and server/DNS management
- Prototyped and developed solutions in Swift, Xcode, Java, C, Python and HTML5

2017, **Summer Advanced Research Camp**, Intern, Austin TX

- Worked with professors and teachers in order to do original research on neural networks
- Collaborated with peers to create programs and scripts in Python and C
- Advised other interns on methods of conducting and presenting research

2016, **Elk Electric**, Apprentice Electrician, Austin TX

- Worked within bounds available parts to create functional example installation circuits for use in construction
- Communicated with distributors and engineers about project requirements to overcome product limitations
- Installed and organized electrical components

2015, **Ally Salon**, Freelance, Austin TX

- Created and maintained website backend, including hosting and installation
- Created web pages and features

2015, **Elk Electric**, Freelance, Austin TX

- Validated employees in database to ensure government licensing compliance
- Modified HTML5 and Javascript code in order to optimize completion times

2015, **Harmony School of Political Science**, Freelance, Austin TX

- Assisted local IT in the repair and diagnosis of laptops and chromebooks
- Replaced screens, keyboards, and other failing components
- Debugged and fixed software issues, reinstalled operating systems, and managed devices

Education:

2018 - Present, **University of Texas at Austin** / Bachelor's in Electrical Engineering

Major GPA: 3.85, Cumulative GPA: 3.65, University Honors

2016 - 2018, **Austin Community College** / Dual Enrollment Program (GPA: 4.0, Presidential Honor Roll)

2014 - 2018, **Harmony School of Political Science** / High School (GPA: 4.26, Valedictorian)

Achievements:

- Three time international science fair Finalist and Silver Medalist
- Scored in top 1% of the following: ACT, SAT, TSI, SAT Math Subject Test I&II, and in the AMC Competition
- Perfect score in the AP Physics, SAT Physics and AP Computer Science exams
- Commended Score on the PSAT/NMSQT and AP Scholar with Distinction Award from the College Board

Clubs and Organizations:

2018-Present, **IEEE Robotics and Automation Society**, Member

2017-2018, **Data Science Club**, Founding Member

2017-2018, **Student Council**, 12th Grade Representative, Admin Attache, and interim Vice President

2016-2018, **National Honor Society**, Member

Volunteering and Community Service:

2014-2018, **Math Tutorials**, Ran tutoring sessions throughout high school for physics and math

2016-2018, **Harmony STEM and Cultural Festivals**, Helped plan and volunteered in several STEM and Cultural Fairs

2015-2016, **Coats for kids**, Collected coats and created online informational material

February 2016, **World Affairs Council of Austin Competition**, Assisted with and participated in event

September 2014 - May 2015, **Mathcounts**, Prepared mathcounts students for Math Competition