

Kyle Herndon

kh@kyleherndon.com | 703-309-1416 | [linkedin.com/in/kylewherndon](https://www.linkedin.com/in/kylewherndon)

Education

University of Illinois at Urbana-Champaign

Class of 2018

Physics and Computer Science Major | James Scholar | GPA: 3.52

Thomas Jefferson High School for Science and Technology

Class of 2015

National Honor Society | GPA: 4.383

Experience

Google

Software Engineering Intern | Summer 2016

- Created a search engine for internal policies and best practices
- Implemented a Material Design frontend for easily traversing complex relationships between policies
- Developed a RPC backend service to support specialized queries on the data model

Kwiat Quantum Information Group

Research Assistant | Fall 2016 - Present

- Designed and built electronic devices for
- Experimented with optics for quantum cryptography for use between drones

Quantum Physics and Optics Research

Lead Programmer | Fall 2014 - Spring 2015

- Lead the creation of a genetic algorithm to maximize accuracy of simulated quantum Hamiltonians
- Produced an original research paper, poster, and presentation in a team for the project

Computing Research Association

Intern | Summer 2014

- Managed and extended database functionalities, updated website, and designed email campaigns for events

Relevant Extracurricular Activities

Association for Computing Machinery

Member/SIGChair | Fall 2015 - Spring 2017

- Educated members and leading projects as the chair of the Special Interest Group (SIG) for natural sciences
- Worked on projects such as taxonomic web app development and EEG headsets assembly in various SIGs

Escape Lab

Designer/Developer | Spring 2016 - Fall 2016

- Aided in the design and construction of puzzles for an educational physics escape room

Hackathons

Participant | Fall 2012-Present

- Attended hackathons from PilotDC to PennApps, working with hardware such as Oculus Rift and Google Glass and frameworks such as MongoDB, Express, Node, JQuery, Meteor, and OpenCV
- Earned Third Place at PilotPhilly 2013 and Most Useful Everyday App at PilotPhilly 2015