

OBJECTIVE

Seeking a full time position that will allow me to take full advantage of my passion and experience in Quantum Engineering.

EDUCATION

- **Iowa State University** Ames, IA
Bachelor of Science, Computer Engineering *Expected graduation: August 2018*

HONOR

Iowa State Deans List, Spring 2017

PROJECTS

- **QCHackers** <https://github.com/vtomole/qchackers>
Hacking Quantum Computers *September 2017 - Present*
 - **Virtual machine:** Implemented a virtual machine in Python that executes Quantum algorithms.
 - **Hack Harvard:** Won the Hacker Prize (Sharing information openly; doing something for its own sake; finding creative solutions to problems.) at Hack Harvard.
- **C48** <https://github.com/vtomole/c48>
A Modern Scalable Programming Language *September 2017 - Present*
 - **Parser:** Implemented an s-expression parser.
 - **Interpreter:** Implemented an evaluator that executes basic Scheme programs.
- **Evie** <https://github.com/vtomole/evie>
A Programming Language Playground *September 2016 - Present*
 - **Cantor:** A programming language inspired by Set Theory that won a prize for “Most interesting project” in a Fall 2016 Hackathon.
 - **Shell:** A Shell interpreter that is capable of executing Linux shell commands.
 - **Kiana:** A virtual machine that interprets an assembly language.
- **Victorys AI Playground** <https://github.com/vtomole/victorysaip playground>
Documenting my education in Machine Learning *May 2016 - August 2016*
 - **AIPlayground:** Programmed basic neural networks in Jupyter Notebook and trained neural networks on a GPU.
 - **Blog:** Implemented in Django and deployed using Heroku: <https://victorysaip playground.herokuapp.com/>

SKILLS

Skilled: Quantum Computing, C, Common Lisp

Experienced: Java, Python

Basic competency: Javascript

EXPERIENCE

- **Iowa State Academic Success Center** Ames, IA
Tutor *September 2017 - Present*
 - **Tasks:** Help students understand material that is taught in the “Theoretical Foundations in Computer Engineering” and “Single Variable Calculus” classes.

WRITING

Architecture for a trapped ion quantum computer <https://vtomole.github.io/static/microwave-arch.pdf>