SEAN ZIMMERMAN

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EDUCATION

Glassboro, NJ	**Rowan University**	**Fall 2013 – May 2017**

- Bachelor of Science Physics. GPA: 3.95 (summa cum laude)
- Computer Science Minor
- Mathematics Minor

EMPLOYMENT

Contract Software Development Intern	**OnSight Digital Solutions**	**Summer 2016 - Present**

- Assisted in developing Quickdraw using Java, HTML5, Handlebars
  - Logs into various third party applications and scrapes data from them.
  - Runs aggregated reports across all sources.
- Created of static webpages using Handlebars and HTML5, and adding features to existing pages.
- Added features to backend Java code.
- Worked under an experienced developer to improve the quality of my code and to help familiarize myself with the code base.

Undergrad Research Assistant	**Rowan University**	**Summer 2016**

- Optics research based on Laser Cooling Rubidium 87 atoms using a Distributed Bragg reflector laser.
- Modified a new laser and put it in an existing optical setup.

Undergrad Research Assistant	**Princeton University**	**Summer 2015**

- Clean room based Material Science research.
- Creation of chemically etched silicon samples to be used for control and transfer of electrons for quantum computing.

PROJECTS AND ACOMPLISHMENTS - https://github.com/szimmy

- **Electric Field Calculator**. Console application which determines the net electric field at any point in 3D space from any number and arrangement of point charges. Working on expansion to arbitrary charge distributions using numerical integration methods. **C++**

- **The Dark Forest**. A 2D RPG game made from scratch with Java and JavaFX. Main focus on design and implementation of game features such as questing and a battle system (including basic enemy AI). Heavy use of MVC pattern. **Java, JavaFX**

- **Airline.** Program to keep track of a (mock) Airline system. Contains information on all flights including passenger information. Passengers can be of different membership types which affect their ability to register for flights. **Java, Swing**

- Vice President of Rowan Physics Club (2016-2017 Academic Year)
  - Organized meetings and events for up to 30 people.
  - Organized outreaches to local middle and high schools to demonstrate physics demonstrations.

LANGUAGES AND TECHNOLOGY

Languages: Java, C++, C#, MIPS Assembly, Mathematica, HTML5
Frameworks: JavaFX, Handlebars, RedditSharp, Swing
Technology: Git, Linux, IntelliJ, Eclipse, Visual Studio, Microsoft Excel, LaTeX