

**Jordan R. Horwich**  
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**Present Address**

2166 14th St  
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**Permanent Address**

4 Oak Street  
Cumberland, ME 04021

**Education**

**Rensselaer Polytechnic Institute**, Troy, NY  
B.S., Computer Science, Minor in Physics  
GPA: 3.76

Graduating May, 2016

**Professional  
Experience**

**Software Engineer**, Bloomberg L.P., New York, NY Summer 2014

- Developed an analytic tool to help the business teams better understand how external market data is provided to clients by leveraging field overload definitions.
- Developed the tool's back end using service-oriented architecture (SOA) to expose metadata of overloaded field mappings from a relational database.
- Designed the front end application which utilizes this SOA to allow the user to view and modify field overload definitions.

**Software Engineer &**

**Physics Consultant**, Mimir Physics, Westbrook, ME Summers 2012-13

- Co-author of a (pending) patent for a hardware and software solution to account for variations in the spectra of multiple light sources in imaging applications.
- Developed an efficient image processor for high color bit depth images that analyzed color data to create color images with an absolute color error of  $\Delta E^* < 1$ .
- Designed and prototyped custom hardware with an FTDI USB interface and developed software to interface with it.
- Increased the processing speed by a factor of nearly 100.

**Software Engineer**, Fairchild Semiconductor, South Portland, ME Summer 2011

- Developed tools to automate quality assurance analyses, collate the data, and then distribute the results across the company's internal network.
- Provided a UI for the tools that was written in Perl using the Tk framework.

**Other  
Projects**

**TrippingWookiee**

A computer vision focused gesture control library. Play 2048 with your hands!

**MIPS simulator**

A simulator written in C capable of running and stepping through MIPS binaries.

**SignSight**

A unique computer vision approach to automatic traffic sign recognition.

**Computer  
Skills**

**Languages:** C++ 5 years experience  
Bash, C, Python, SQL < 4 years experience  
**Software:** Git, Linux, Maple, Mathematica, OS X, Windows  
**Skills:** Extensive knowledge of color spaces and bitmap images

**Honors &  
Achievements**

**HackRU** - Organizer's Choice Award (Spring 2014).

**Microsoft Coding Competition** - Tied for first place (October 2013).

**Dean's List** - All semesters.

**Rensselaer Leadership Award**