Jordan R. Horwich

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Present Address		**Permanent Address**
2166 14th St		4 Oak Street
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Troy, NY 12180		

Education

Rensselaer Polytechnic Institute, Troy, NY   Graduating May, 2016
B.S., Computer Science, Minor in Physics
GPA: 3.76

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

TrippingWookie
     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