Samuel S. Wenninger

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Fall 2014 - Present

Education	Rensselaer Polytechnic Institute (RPI), Troy, NY Bachelor of Science in Comp. Sys. Engr. & Comp. Sci. (Dual Major) Rensselaer Medalist Award Rensselaer Recognition Award Deans List (All Semesters) Junior with Senior status	December 2016 GPA: 3.76/4.0
	 University of Massachusetts Amherst (UMASS), Amherst, MA Physics 1, Physics 2, and Differential Equations Pioneer Valley Christian Academy, Springfield, MA 	Summer 2014 GPA: 4.0/4.0
	 Class of 2013 Valedictorian National Honor Society Member Class President (Sophomore and Junior) 	Spring 2013 GPA: 4.2/4.0
Experience	Intern, Raytheon Integrated Defense Systems, Tewksbury, MA Emulator Team Member in the Software Engineering Directorate • Analyzed and improved the Patriot Missile System's Emulated	Summer 2015

Relevant Coursework

Data Structures (C++)

- Designed and implemented a recursive path finding algorithm to calculate and display the most efficient solutions to "Ricochet Robots" puzzles.
- Developed a program to manage the physical DVD media inventory of Netflix.
- Implemented custom data structures such as a Google+ like relationship network.
- Implemented lossless image compression using perfect hashing.

Weapons Control Computer performance by 3.5%

ALAC Tutor, Rensselaer Polytechnic Institute (RPI), Troy, NY Drop-In Tutor for the Advising and Learning Assistance Center

(Python), and Data Structures (C++) one-on-one

Effectively used C++, C, Awk, Bash, and IBM Rational ClearCase

Instructing students in Physics 1, Physics 2, Computer Science 1

Cryptography & Network Security

- Worked with a 3-person team to develop a C++ asynchronous, socket-based ATM, proxy, and bank system that supports sessions, funds transfers, withdrawals, and deposits.
- Designed a custom protocol inspired by TLS utilizing RSA encrypted Diffie-Hellman key exchange to establish sessions and AES cipher feedback message encryption.
- Successfully implemented replay and rogue decryption attacks on another implementation.

Comp. Sci. 1 (Python), Comp. Comp. & Op., Fndns. of Comp. Sci., Engr. Graphics & CAD, Physics II, Emb. Control, Intro. to Eng. Design, Intro. to Algorithms, Electric Circuits, Comp. Arch., Nets., & OS, Operating Systems, Prog. Lang., Software Design & Documentation, Speech Com.

Skills *Proficient*: C++, C, Python, UNIX, Vim, Bash, NX 8.5 (CAD), LaTeX, Public Speaking, Leadership *Familiar*: Awk, Haskell, Erlang, Prolog, IBM Rational ClearCase, HTML, CSS, JavaScript

Certifications Secret security clearance

Interests Technology, Leadership, Learning, Military Technologies, Innovation