

Aaron W. Sedlacek

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EDUCATION

2010 — Present

Rensselaer Polytechnic Institute Troy, NY

Master's of Science in Information Technology and Web Science
Concentration in Information Dominance
GPA 3.0/4.0
Anticipated graduation date 2016

Bachelor's of Science in Information Technology and Web Science
Concentration in Information Security and Cryptography

EXPERIENCE

June — Dec. 2011

Honda R&D Americas, Inc. , Raymond OH

- Designed and developed electronic systems for Acura and Honda automobiles
- Created wire harnesses as well as many other systems including battery sensors, electronic parking brake, ACM and AC Inverter systems
- Managed design and implementation of a collision detection cameras
- Collaborated with external suppliers to facilitate product development

PROJECTS

Jan. 2015 — Present

Malware Reverse Engineering and Analysis, Troy NY

- Independently studying techniques in reverse engineering and analyzing common malware behavior
- Utilizing the Practical Malware Analysis textbook by Michael Sikorski and Andrew Honig as a guide
- Performing modern static and dynamic analysis with tools like IDA Pro, OllyDbg, and WinDbg
- Developing experience with analysis of various types of malware such as rootkits, loaders, launchers, keyloggers, credential stealers, and backdoors
- Studying common anti-reverse-engineering techniques such as disassembly obfuscation and virtual machine detection

Jan. — May 2014

RPIBookSwap , www.rpibookswap.com

- Created an open source web application that allows RPI students to freely trade textbooks
- Exchanges are recommended to users based on others who want to buy or sell the same books
- Secure integration with the Google Books API allows users to import books to the local database
- Managed web application security by performing regular security audits

EXTRACURRICULAR ACTIVITIES

2011 — Present

The Fraternity of Phi Gamma Delta, Troy NY

- Elected as chapter Historian, one of five officers who jointly lead the chapter over a year long term
- Also served as chapter Steward and Pledge Educator

2013 — Present

RPISEC, Troy NY

- Competed in multiple CTF's, including CSAW, Boston Key Party, and Sharif CTF
- Attended CSAW THREADS Conference
- Attended lectures on security topics like reverse engineering, web application exploitation, malware analysis, binary exploitation, and cryptography
- Received extensive training on modern binary exploitation topics
- Completed multiple online computer security challenges
 - microcorruption.com
 - exploit-exercises.com - Nebula
 - smashtystack.org - IO
 - overthewire.org - Bandit, Leviathan, Narnia, Behemoth, Natas, and Krypton
 - offensive-security.com - Penetration Testing With Backtrack