

# Zachary M. Wimer

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## Objective

To obtain a Ph.D. in the field of Computer Science.

## Education

### Rensselaer Polytechnic Institute (RPI)

**GPA: 4.0**

MASTER OF SCIENCE: COMPUTER SCIENCE

Sept. 2014 - PRESENT

BACHELOR OF SCIENCE (DUAL MAJOR): COMPUTER SCIENCE / COMPUTATIONAL MATHEMATICS

MINOR: ECONOMICS

## Experience

Private **Tutor**, Calculus, Data structures, C++ basics

Aug. 2013-PRESENT

RPI **Mentor**, RCOS

Jan. 2017-PRESENT

Lutron **Co-op**, Computer Science

May 2017-July 2017

RPI **Undergraduate TA (x2)**, Foundations of Computer Science

Aug. 2015-Dec. 2015

RPI **Undergraduate TA**, Data Structures

Jan. 2015-May 2015

## Skills

### Programming Languages

*Advanced:* C, C++, Java, Python

*Proficient:* MatLab, Racket(Scheme), Prolog, Bash, Latex, AppleScript

*Basics:* Haskell, x86, x64, mips, tal, html fish, CMake, Javascript

*Exposure to:* Rust, R, Mongo, qmake, Fortran, php, Maple, OCaml, plant UML

### General

- Well developed commenting style
- Learning C++ template meta programming and Rust
- Basic conversational Spanish

**External Libraries:** Boost, QT

## Projects

C++, **DrShadowStack**, A software defined dynamically implemented shadow stack utilizing

Feb. 2018-PRESENT

CMake DynamoRIO

Rust, UML **smllr**, A fast file de-duplicator

Aug. 2017-Dec. 2017

C++ **ZNC SelfMsg**, A ZNC module that allows all clients self message capability

Aug. 2017-Dec. 2017

C++, QT **CAPP-Reporter**, A functional CAPP Reporter that works for RPI single and dual majors:

Aug. 2016-Jan. 2017

RCOS.io/projects/zwimer/capp-reporter/profile

Java **RPI-Campus-Paths**, A shortest path finder with GUI for the RPI Troy Campus

Aug. 2015-Dec. 2015

## Unique Courses

RPI **Modern Binary Exploitation**, Learned how to write safe and secure code and how to pwn.

Jan. 2017-Dec. 2017

RPI **Numerical Linear Algebra with Applications**, Learned how to solve L.A. problems numerically.

Jan. 2017-Dec. 2017

RPI **Networking Laboratory**, Cisco provided course that taught the fundamentals of networking.

Aug. 2016-Dec. 2016

## Activities

RPI **Member**, Upsilon Pi Epsilon

Oct. 2016-PRESENT

RPI **Member**, Pi Mu Epsilon

Feb. 2017-PRESENT

RPI **Member / Core**, RpiSec

Jan. 2016-PRESENT

RPI **Mentor / Member**, Rensselaer Center for Open Source

Jan. 2017-PRESENT

## Honors & Awards

RPI **Member**, Dean's Honor List

2014-PRESENT

RPI **Recipient**, Received Leadership Scholarship

2014-PRESENT

RPI **Member**, CS honor society

2016-PRESENT

RPI **Member**, Math honor society

2017-PRESENT

RPI **Recipient**, RPI's 4.0 Award

2016, 2017

RPI **Recipient**, RPI's Founders Award of Excellence

2017