Lucas Biery

bieryl@rpi.edu — (727) 403-3112

github.com/Tiecoon

Education

Rensselaer Polytechnic Institute	August 2016 – December 2019
Bachelor of Computer Science	(Expected)

Work Experience

Advanced Technology Laboratories Intern *Lockheed Martin* May 2018 – August 2018

Developed a network proxy for obscuring traffic inside of various protocols to avoid detection

Manticore Developer *Trail of Bits* May 2019 – August 2019

Worked on improving usability and bug fixing of the symbolic execution engine Manticore.

Projects

B7 gitlab.com/Tiecoon/B7

An open source rewrite in rust of an internal RPISEC tool

Performs side channel attacks on certain executables, by reasoning about program input using the instruction count of many executions

BBS Project for program analysis class

Implements a program constraint extractor using Binary Ninja's MLIL in SSA form

Produces SMT-LIB formatted constraints on variables to reach a certain point in a program

Magic Mirror github.com/MrLever/MagicMirror

A summer project with a friend to collect info from APIs we want and display on a monitor powered by a Raspberry Pi, using HTML CSS and JavaScript

Interests

Reverse engineering, binary exploitation, hardware hacking

System administration, software development

Languages

C, C++, Rust, Python, Go, JavaScript, LaTeX

Activities

Member and current System Administrator of RPISEC - RPI Computer Security Club

– Compete in CTFs and help teach skills at weekly meetings

– Work on rewriting RPISEC infrastructure to use modern provisioning tools, such as ansible

– Help orchestrate infrastructure during meetings and internal CTFs

Participate in wargames in my spare time

– Some wargames I participate in include reversing.kr, Microcorruption, pwnable.kr, and OverTheWire

– Comptia A+ and Security+ certified