

# Lucas Biery

bieryl@rpi.edu — (727) 403-3112

[github.com/Tiecoon](https://github.com/Tiecoon)

## 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

**Beach Rentals** *National Water Sports – Clearwater Beach* May 2017 – August 2017

Rented and sold umbrellas, and helped customers with jet ski rentals

## Education

Rensselaer Polytechnic Institute

August 2016 – December 2019

Bachelor of Computer Science

(Expected)

## Projects

**B7** [github.com/Tiecoon/B7](https://github.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](https://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,  $\text{\LaTeX}$

## 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