Jason Blocklove

COMPUTER ENGINEERING BS/MS STUDENT

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Education

Rochester Institute of Technology (RIT)   *Graduation Date: May 2020*

BS/MS IN COMPUTER ENGINEERING   *Rochester, NY*

- GPA - 3.64/4.0

Experience

SICOM Systems   *May - August 2018*

RESEARCH & DEVELOPMENT CO-OP   *Lansdale, PA*

- Designed and developed a comprehensive testing system for Order Confirmation Units
- Developed an E-Payment system for university campuses with a Point of Sale terminal using external APIs
- Worked on reverse engineering a device to determine how to modify a current system to work with new hardware

Johnson & Johnson   *June - December 2017*

COMPUTER ENGINEERING CO-OP   *Raritan, NJ*

- Used Java to develop and disseminate creation tool for Outlook Distribution Lists
- Created numerous Excel and Outlook macros to streamline day-to-day work

RIT Computer Engineering Department   *January 2017 - Present*

LAB INSTRUCTOR/TEACHING ASSISTANT   *Rochester, NY*

- Managed a team of TAs to keep the lab running smoothly, as well as helped students with higher level problems
- Assisted students in Digital System Design I and II, and Interfacing Digital Electronics labs
- Taught circuit troubleshooting principles, re-taught key lecture principles, answered lab-related questions, and graded labs

RIT Computer Engineering Department   *May 2017 - Present*

CURRICULUM ASSISTANT   *Rochester, NY*

- Identified structural issues with several Digital System Design II and Interfacing Digital Electronics labs
- Restructured lab exercises with professor and wrote lab procedures for students to implement
- Designed and developed labs which have students create a small MIPS Datapath in VHDL

Dr. Shanchieh Yang   *April - September 2016*

RESEARCH AND DEVELOPMENT TEAM   *Rochester, NY*

- Designed and developed a user interface for a Java program to support Computing Security-related research
- Worked with and debugged an external API used for graph drawing

Projects

MITRE eCTF Competition   *January - April 2019*

- Competition to secure a Zynq System on Chip device and attack opposing teams' designs
- Collaborated with RIT Computing Security team to secure both software and hardware on the device

Personal Server   *2016 - Present*

- Built and set up personal server using multiple distributions of Linux
- Set up server with a hypervisor for easily using multiple VMs for different tasks
- Managed multiple users and wrote installation scripts for most commonly used programs

ImagineRIT MAME Project   *2015 - 2017*

- Team leader, coordinated work with twelve engineering students to design and build a multiple gaming system emulator
- Developed project specifications and ensured on-budget delivery

Technical Skills

Languages (Most Fluent First)   VHDL, Java, C#, C, Python, VBA, Bash, Assembly (MIPS and ARM ThumbII)

Operating Systems   Linux (Arch, Debian, & Red Hat Based), Windows, macOS

Hardware   FPGA, SoC, ARM Microprocessors (Raspberry Pi, NXP K64F, STML32), Arduino, Soldering Skills

Select Leadership Experience and Activities

RIT Engineering House   *2016 - 2017*

VICE PRESIDENT   *Rochester, NY*

- Executive Board member of an Engineering-focused student organization at RIT; dealt specifically with internal affairs and RIT liaison issues
- Assumed role of President for last month of term

Eagle Scout and Senior Patrol Leader   *2015*

BOY SCOUT TROOP 399   *Lansdale, PA*

- Coordinated service projects and other activities for troop of thirty younger scouts