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 - 3.60/4.0
- Relevant Coursework - Digital Signal Processing, Interface & Digital Electronic, Digital System Design I & II, Assembly Language Programming, Applied Programming, Computer Organization, Computer Architecture, Computer Science I & II, Circuits I & II, Electronics I, Discrete Math for Computing, Differential Equations, Linear Algebra

Experience

SICOM Systems　　　　　　　　　　　　　　　　　　　　　　　　*May - August 2018*

RESEARCH & DEVELOPMENT CO-OP　　　　　　　　　　　　　　　　　　　　　*Lansdale, PA*

- Developed testing system for Order Confirmation Units
- Designed an E-Payment system for a number of universities in Canada using our Point of Sale terminals

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　　　　　　　　　　　　　*May 2017 - Present*

CURRICULUM ASSISTANT　　　　　　　　　　　　　　　　　　　　　　　*Rochester, NY*

- Identified structural issues with several Digital System Design II labs
- Restructured lab exercises with professor and wrote lab procedures for students to implement

RIT Computer Engineering Department　　　　　　　　　　　*January 2017 - Present*

TEACHING ASSISTANT/LAB INSTRUCTOR　　　　　　　　　　　　　　　　　　*Rochester, NY*

- Responsible for assisting students in Digital System Design I lab
- Taught circuit troubleshooting principles, re-taught key lecture principles, answered lab-related questions, graded labs

Dr. Shanchieh Yang　　　　　　　　　　　　　　　　　　　*April - September 2016*

RESEARCH AND DEVELOPMENT TEAM　　　　　　　　　　　　　　　　　　　*Rochester, NY*

- Designed and developed a user interface for a Java program to support Computer Security-related research

Projects

Online Coding Course - "Cedar"　　　　　　　　　　　　　　　　*2017 - Present*

- Designing curriculum to teach language-agnostic coding principles
- Developing website in Flask to serve as an online classroom

Personal Server　　　　　　　　　　　　　　　　　　　　　　*2016 - Present*

- Built and set up personal server using multiple distributions of Linux
- 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

Automation of Nanofiber Electrospinning Process　　　　　　　　　*2014 - 2015*

- Improved process for electrospinning polymer nanofibers through re-design of system control features
- Utilized 3-D modeling and printing to determine optimal design for collection plate system

Technical Skills

Languages (Most Fluent First)	VHDL for FPGA, Java, C#, C, Python, VBA, Bash, Assembly (MIPS and ARM ThumbII)
Operating Systems	Linux (Arch & Debian Based), Windows
Hardware	FPGA, Raspberry Pi, 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

Engineering Projects in Community Service (EPICS) Club   *2014 - 2015*

PRESIDENT   *Lansdale, PA*

- Organized activities related to four concurrently running engineering-related service projects in local community
- Worked with advisor to teach good Engineering practices during projects

Boy Scout Troop 399   *2015*

EAGLE SCOUT AND SENIOR PATROL LEADER   *Lansdale, PA*

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