

# Jacob Meyerson

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## EDUCATION

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### Rochester Institute of Technology (RIT)

Rochester, NY

*Bachelor of Science in Computer Engineering*

*Aug. 2017 – May 2022*

*Minor in Mathematics*

*Aug. 2017 – May 2022*

*GPA: 3.98/4.00 Dean's List: Fall 2017, Spring 2018, Fall 2018, Spring 2019, Spring 2020, Spring 2021, Fall 2022, Spring 2022*

## EXPERIENCE

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### Lockheed Martin

June 2019 - Nov 2019, June 2020 - April 2021

*Software Engineering Co-Op*

*Owego, NY*

- Part of the Diagnostic Software unit
- Worked on B2 Bomber Avionics and Graphics Processor (B2-AGP) automating builds and card setups, along with verifying card functionality
- Worked with Northern Arizona University (NAU) using Ternary Physically Unclonable Functions (PUF) for encryption and key authentication

### STR

June 2021 - August 2021

*Sensors - Signal Processing & Algorithms Intern*

*Woburn, MA*

- Part of the Signal Processing & Algorithms department
- Worked on porting the PYNQ environment for ZYNQ architectures from a supported board to high powered signal processing ZYNQ board

### Rochester Institute of Technology (RIT)

Jan 2020 - May 2020

*Digital System Design II Teaching Assistant*

*Rochester, NY*

- Worked in the lab helping students design a MIPS processor in VHDL
- Taught students the process of debugging errors in code and verifying waveforms
- Held office hours to individually work with students to improve their understanding of the design and code

## PROJECTS

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### Lockheed Martin B2 AGP | C, Python, SVN, Raspberry Pi, Waterfall

June 2019 – Nov 2019

- Performed Software Verification (SV) and Design Verification Tests (DVT) to prove functionality, updating procedures as required
- Documented user guides for important processes required for testing
- Automated the build process for building Board Support Packages (BSPs) for each custom card
- Created setup macros to automate software configuration for new cards

### Lockheed Martin TPUF | C/C++, Python, Gitlab, Arduino, Agile

June 2020 – April 2021

- Worked with NAU to develop code to use Ternary Physically Unclonable Functions for secure key exchanges
- Restructured and reformatted code to create layers of abstraction and to make object oriented
- Developed using an Agile design framework
- Helped set up automated Software Factory to test and compile code anytime it's committed to Gitlab

### Webcheckers | Java, Spark, Git, HTML, Agile

Oct 2018 – Dec 2018

- Developed an online checkers game in a team of five using Java, Spark web micro framework, and HTML to meet demands of a customer-figure
- Developed using OpenUP methodology and Scrum process
- Created UML files, sequence diagrams, flow charts to support architecture choices

### PYNQ Environment Porting | Make, Git, ZYNQ architecture, Python

June 2021 – August 2021

- Worked to port the PYNQ environment from a supported board to a higher powered ZYNQ board
- Provided capability to execute high level algorithms (Python) on ZYNQ boards without manually writing VHDL/Verilog models

## TECHNICAL SKILLS

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**Languages:** C/C++, Java, Python ARM Assembly, MIPS Assembly, VHDL, LaTeX, Markdown

**Developer Tools:** Git/Gitlab, SVN, Cadence Virtuoso, Altera Quartus, LabVIEW, CodeWarrior, Xilinx, SPICE

**Hardware:** Oscilloscope, Digital Multimeter, Raspberry Pi, Arduino, Nexys 4 DDR, ZYNQ, STM32

**Software Development Processes:** Waterfall, Agile

## ACTIVITIES

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**NCAA Division III Men's Tennis** | *Student Athlete*

Aug 2017 – May 2022

**Student Athlete Advisory Committee (SAAC)** | *Student Athlete* Sept 2018 - May 2019, Aug 2021 - May 2022

- Represent Men's Tennis to help plan athlete events, as well as team activities like community service projects