

# GEORGIA SHAY

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## EDUCATION

**Massachusetts Institute of Technology (MIT)** May 2023

Master's of Engineering Candidate, Electrical Engineering and Computer Science

**Massachusetts Institute of Technology (MIT)** May 2022

B.S. Electrical Engineering and Computer Science

Relevant Coursework: Computer architecture, computer systems security, hardware security, circuit analysis, software development, algorithms, power electronics, nanoelectronics, computer graphics

## EXPERIENCE

**Intern, Cascodium** Jun 2022 – Aug 2022

- Added features and fixed bugs on an embedded system in C, and a corresponding GUI in C++
- Redesigned a PCB for a measurement device to improve accuracy
- Researched algorithms for a signal processing task and simulated the effect of noise, frequency, and other parameters on their results to compare different methods

**Integration Engineer Intern, Apple** Jun 2021 – Aug 2021

- Set up a clock domain crossing check flow and worked with designers to apply valid constraints to signals
- Set up synthesis flow to run automatically and send the most important information to designers by email. Set up tracking for important metrics over time

**Design Verification Intern, Apple** Jun 2020 – Aug 2020

- Upgraded a set of test components, porting customized features to a new design framework
- Implemented a new feature in a testbench reference model to match the design, providing random stimulus to achieve good coverage of usage scenarios
- Improved test-bench build flow by adding a pre-submission check of autogenerated files

**Intern, Bridgestone Americas** Jun 2019 – Aug 2019

- Facilitated a fivefold speed increase in database serialization through caching and refactoring
- Optimized an intersection algorithm by five times using short-circuiting and array programming

**Intern, Bridgestone Americas** Jun 2018 – Aug 2018

- Wrote Python code to populate, update, and extract engineering test data via a GUI
- Analyzed signal data with mathematical transforms, relating results to real world conditions

## ACTIVITIES

**Student Information Processing Board (SIPB)** Sep 2018 – May 2023

- Created a website to track attendance and contributions using python Flask
- Developed a student-run degree planning application to help students choose classes in VueJS

**UROP Research in Geometric Data Processing Group** Sep 2021 – May 2022

- Performed survey of current mesh parameterization techniques
- Constructed a dataset of meshes and created a benchmark to evaluate parameterization methods

## SKILLS

**Computer Software/Tools:** SolidWorks, Altium, Git, Jira, UVM, SQL

**Computer Languages:** Python, C, C++, Visual Basic, JavaScript (Node, Vue), Java, SystemVerilog, Verilog

**EECS Skills:** Embedded Systems, Signal Processing, Hardware Design Integration & Verification