

Justis Martin DiBattista

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ

Bachelor of Science in Computer Engineering

Expected May 2022

GPA: 3.21 | **Awards:** Presidential Scholarship, Hispanic Scholarship Fund Scholar

Coursework: Data Structures & Algorithms, Microprocessor Systems, Circuits & Systems, Statistics, Digital System Design, Modeling & Simulation

SKILLS

Software: Dassault Systèmes Solidworks, Adobe Photoshop, MS Office, OMNET++

Hardware: Raspberry Pi, Arduino, FPGA

Programming: Java, Python, C++, VHDL, HTML, ARM Assembly

Languages: English

WORK EXPERIENCE

Better Team USA | Clifton, NJ

Garment Engineer/CAD Director

1/21 – Present

- Using high-level plotting software to engineer more durable and efficient ways of automating the assembly of technical garments with inner linings
- Designing multiple-layered plastic templates in Solidworks for usage in an automatic sewing machine
- Programming an automatic sewing interface to follow template patterns and precisely stitch together garment components
- Operating and programming a CO2 Laser Engraving Machine with Solidworks to produce templates as well as create unique garment components
- Leading a team of machine operators through the usage of automatic sewing machines and the stitching template development process

Federal Communications Commission | Washington, DC

Data Analytics Intern

5/21 – 8/21

- Work in a team of interns and supervisors to progress on projects passed down from past teams
- Perform technical open-source research on Operations Support Systems and Industrial Control Systems security
- Develop a proposal for a Communications Security, Reliability, and Interoperability Council Working Group for OSS cyber-risk mitigation
- Assist in establishing first forms of legislature allowing FCC regulation of Operations Support Systems security

Ridgefield Community Pool | Ridgefield, NJ

Head Lifeguard

6/16 – 8/19

- Leading a team of lifeguards through delegating pool maintenance tasks and positions
- Ensure the pool is safe for pedestrians and mitigate any health or social situations on the grounds
- Write and organize lifeguard rotation schedules throughout the day and manage stations as needed

ACADEMIC PROJECTS

Stevens Institute of Technology | Hoboken, NJ

Senior Design Project: IntelliVeggie

9/21 – Present

- Designing a greenhouse with sensors installed for automatically watering plants and managing sunlight and temperature.
- Programming embedded systems for sensor communication with an Arduino, Raspberry Pi 3b+, and Firebase
- Use IoT to have Raspberry Pi communicate live with servers for displaying sensor readings as well as allowing motor and light control remotely.

Digital System Design Project: ViperHDL

9/20–12/20

- Designed a game interface with the likeness of the original snake game by programming a Xilinx FPGA device using VHDL
- Simulated game view on a monitor as the FPGA device acted as a controller for the game
- Modeled the behavior of the game components including world boundaries, tail length/movement, random food generation, etc.

LEADERSHIP EXPERIENCE

Phi Sigma Kappa Iota Chapter | Hoboken, NJ

Vice President

5/21 – Present

- Managed a semester budget of \$3,500 for distribution over philanthropy fundraising events and chapter affairs
- Advised the chapter along with the President and other elected board members during chapter meetings to coordinate events, amend and ratify bylaws, and maintain communication and clarity between members.
- Manage risk and hold responsibility for maintaining safety and security at any events related to the chapter.

ACTIVITIES

Phi Sigma Kappa Fraternity

U.S. Citizen