

EDUCATION

New York, NY	The City College of New York	Feb 2015 - May 2020
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- B.E. in Computer Engineering, May 2020. GPA: 3.056
- Undergraduate Courses: Comp. Architecture, Algorithms, Soft. Design Lab, Software Engineering, EE Labs

Languages and Technologies

- C++, Java, Python, x86, C, HTML, CSS, VHDL
- Git, Visual Studio, VS Code, MATLAB, Quartus, KiCAD, AutoCAD

TECHNICAL EXPERIENCE**Projects**

- **Smart eBike Kit (Senior Capstone) – Team Leader** (Fall 2019-Spring 2020).
 - A conversion kit which converts a mountain bike into an eBike w/ object detection & a smartphone app.
 - Organized weekly team meetings for designs, papers, presentations, etc. Delegated tasks.
 - Designed PCBs for eBrake/speedometer sensors, turn signals & current divider for the DC/DC converter.
 - Designed 3D housings for eBrake and speedometer sensors.
 - Created backend code for app setup on Raspberry Pi and for the speedometers and turn signal sensors.
 - Setup the smartphone app and created GUI.
 - Motor design/placement and simulations of motor performance.
 - Testing of 18650 Li-Ion cells for battery pack for the eBike.
- **32-bit CPU** (Spring 2019).
 - 32-bit CPU implemented using VHDL in Quartus.
 - Designed and implemented Register, Instruction Memory, ALU, ALU Control, Data Memory, Control Unit.
 - Implemented LOADI, ORI, ADD, SUB, AND, OR, STL, SW, LW.
 - Implemented onto FPGA board. Designed to take 32-bit instructions with switches.
- **MEEP** (Fall 2018).
 - Group project creating a mimic google docs using Python, Flask and ReactJS.
 - Worked on the front end using MaterializeCSS. Rated as best user interface designed in the class.
- **Personal Website** (Winter 2018-Present).
 - Using HTML/CSS/JS to develop website. Using CSS Materialize to design/expedite UI.
- **Digital Clock** (Summer 2017).
 - 12-hour clock built with digital ICs. Schematics created in MultiSIM, then applied to protoboard.
 - Designed to use a 9V input. Created a working time base generator for clock signal.
- **Text Editor** (Fall 2017).
 - Created a text editor using ASM with GUI based on notepad.
 - Implemented: Open, read, save & close file. Insert and Overtyping Mode. Font Color. Encrypt/Decrypt.

EMPLOYMENT

IT	RFCUNY-PS1 Bergen	Jan 2020-Current
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- Resolved 71 existing problems within 5 weeks of starting.
- Reduced response time of issues from within a week to within 24-36 hours.
- Cleaned out and organized tech storage closet. Created labeling system for organization.

Tutor	Varsity Tutors	April 2018-Current
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- Tutoring various subjects through Varsity Tutors with an average score of 5/5 by clients.
- Have brought students a grade level up after tutoring completed.

ADDITIONAL EXPERIENCE AND AWARDS

- **Presidential Scholarship, New York Institute of Technology:** \$16,000 scholarship award.

LANGUAGES

- **German:** (A1-A2 Level).