

# RENATO VILCA VALDERRAMA

rvilca100@gmail.com | 646-342-9052

## EDUCATION

Bachelor of Engineering, Electrical Engineering, The City College of New York, expected June 2021

## RELEVANT COURSEWORK

Digital Signal Processing, Computer Communication Systems, Electronic Devices and Semiconductor Materials, Digital Computer Systems, Wireless Communications, Microprocessors

## QUALIFICATIONS

**Core Qualities:** Adaptable, Patient, Goal-oriented

**Software:** Multisim, LTspice, QtSpim, LabVIEW, Riverbed Modeler, Microsoft Word, PowerPoint, Excel

**Hardware:** Soldering, Oscilloscope, Function Generator, Multimeter, Embedded Microcontrollers, FPGA, Arduino, Electrical and Electronic Circuits

**Programming Languages:** MATLAB, C++

**Languages:** Fluent in Spanish

## PROJECTS

**CX – 6 Rocket:** As part of the HLA rocketry club, I am currently cooperatively designing the CX – 6 rocket's electrical recovery system and assisting in its integration into the airframe. I also oversee the electrical section's competition compliance and am helping develop solutions to the design constraints imposed by the CX - 6 rocket Technical Specifications (Spring, 2020)

**6-Node Network Design:** To compare routing algorithms, I used the Riverbed Modeler software to simulate a 6-node network and compare average delay, utilization, and speed of convergence. My results favored the Routing Information Protocol. (Spring, 2020)

**Audio Amplifier:** To create a PA amplifier, a classmate and I assembled and combined a common emitter amplifier and a push-pull power amplifier using integrated circuits on a protoboard. I tested the final product using inputs from a function generator and then a microphone. (Spring, 2019)

## EXPERIENCE

**Bilingual Consumer Services Specialist III, Maximus,** New York, NY Jun. 2020 – Aug. 2020

- Assisted consumers in processing government-sponsored health insurance plan applications in both English and Spanish
- Navigated various databases to fulfill changes, updates, and requests regarding consumer health insurance marketplace accounts

**Sales Support, Frette on Madison Avenue,** New York, NY Dec. 2015- Jan. 2017

- Worked cooperatively with stockroom staff in preparing the store for inventory check
- Boxed and shipped items to fulfill orders or requests from other locations
- Aided the sales team with technical support and workplace organization

## AFFILIATIONS

*Design Engineer*, Harlem Launch Alliance, 2020-Present

*Member*, IEEE CCNY Student Chapter, 2019-Present

## HONORS/AWARDS

AECOM and CCNY Master's in Translational Medicine COVID-19 Design Challenge Winner, 2020

National Society of Collegiate Scholars, City College of New York, 2016