

# Alejandro Aguilar

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(973) 876 - 9207

[alejandro.aguilar1195@gmail.com](mailto:alejandro.aguilar1195@gmail.com) || [aaparallel.com](http://aaparallel.com)

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## Education

**Rutgers, the State University of New Jersey**

Sept. 2014 – May 2018

Bachelor of Science in Electrical & Computer Engineering

**Relevant Coursework:** Network Centric Programming, Computer Architecture, Software Engineering, Data Structures, Embedded Systems, MATLAB, Digital Logic Design, Computer Systems, Program Methodology I&II

## Programming Skills

**Programming languages:** C++, C, Java, Python, HTML, CSS, PHP, MIPS, Bootstrap, XML

**Software/Operating Systems:** Eclipse, Android Studio, Visual Studio, Linux, Windows, Mac ios, Vivado design suite and sdk, git and github, pspice

**Other Skills:** Fluent in Spanish and English, Great communication skills and teamwork

## Programming Projects

### RISC V IDE and Simulator

(September 2017 - Spring 2018)

- Co-leading a group of 4 peers to create an academic IDE and simulator for RISC-V architecture using the MVC design pattern to keep everything organized and led developing process, helped with concept ideas and planning
- In charge of GUI design and user interactions, planned a large scale integration of individual components to create a smooth and easy to use tool

### Rags to Riches

(February 2017 - Spring 2017)

- Leading a group of 6 peers to create a stock market simulation game for Android, using the MVC pattern to organize and simplify project
- Implemented the screens of the application in XML, maintaining a consistent user interface
- Coordinated and communicated project changes using Git on the command line

### Raspberry PI Webcam

(Spring 2017)

- A python script would take continuous pictures on a raspberry pi camera and have it send live feed via a server programmed in c using UDP protocol in order to create a webcam

## Leadership Experience

### Rutgers University: Society of Hispanic Professional Engineers

*Treasurer / Webmaster / Executive Board Member / Career Fair Representative* (August 2015 – June 2018)

- Created Rutgers' SHPE website from scratch using HTML, CSS, and Javascript
- As Executive Board Member, in charge of running meetings and helping out other board members
- Manage funds for organization, minimize spending cost in order to optimize surplus for school year

## Work Experience

### Gaming Laboratories International

*Test Engineer*

May 29, 2018 - Present

- Responsible for source code review, testing of software and hardware components for gaming manufacturers. Also responsible for testing games against state regulations in order to be able to be distributed to clients.
- Working with Bally manufacturers to find and resolve game issues in submitted software.

### Vintage Vinyl

*Web Developer*

January 2018 – May 2018

- Responsible for creating new pages for store website using PHP and Twig framework  
Updating SQL database of 4000+ items, Sending out newsletter to clients coded in HTML and CSS  
Maintaining linux backup server(centos os), and main server KDE Daemon linux  
Enabling remote hosting to server, working with tools such as putty, sshing, winscp, filezilla