YERAY LOPEZ

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Skills

ENGINEERING:

Python 3

Python GUI Design

Java

C/C++

Networks

VHDL & Assembly Language

MIPS (RISC) Architecture

Multisim, LABVIEW, MATLAB

HTML/CSS

Microcontroller programming with Motorola 68K & PIC

TECHNICAL & COMPUTER:

Experienced with Windows, Mac OS X, UNIX, Linux, Android, IOS and Virtual Machine environments

Experienced in computer building, repair and maintenance

Developed sense for effective troubleshooting of systems

PERSONAL:

Native fluency in both Spanish and English

Highly detail-focused

Ability to self teach new skills and concepts

Ability to work with all resources available in a creative fashion to solve problems

Ability to verbally communicate effectively with people in and out of professional settings

Capable of understanding systems and how they function

Conscious of time and resources spent on company projects

Ability to reverse engineer systems and problems.

Education

Villanova University
Bachelor of Science Computer Engineering 2020
Minor in Computer Science

Employment

Comcast   Philadelphia, Pennsylvania
Marketing Intelligence Analyst Intern (Business Services)   June 2019 to Current
- Responsible for designing and creating scaleable and robust data mining tools for social media platforms.
- Performed data analysis using machine learning and natural language processing tools to report back possible marketing decisions to be considered.
- Designed and made a GUI for a more simple and interactive experience.

JD Sound & Video   Voorhees, New Jersey
Lead A/V Installation Technician   June 2017 to August 2018
- Responsible for company IT and programming matters which included setting up a variety of networks such as gateways, switches, WAPs, VPNs, and controllers.
- Established a communication and documentation platform to improve project management.
- Performed the installation, operation, and repair of Crestron, Extron, QSC, Lutron, and Shure systems.

IATSE 8   Delaware Valley Area
Freelance Audio Engineer (On-Call)   Summer 2016 to Summer 2019
- Worked in high profile events such as Democratic National Convention, NBA Draft, & NFL Draft.
- Set up all A/V equipment for live events ranging from small live performances to concerts.
- Responsible for setting up audio mixers, DMX lighting, comm systems, and troubleshooting setups.

Concert Quality Sound   Egg Harbor City, New Jersey
Shop Manager & Audio Engineer   Summer 2016
- Managed daily operations of the entire warehouse and store.
- Responsible for serving customers, supervising inventory control, and delivering rentals.
- Improved organizational system of stock by labeling and color coding parts.

Projects & Activities

Comcast Silicon Valley Innovation Center   July 2019 to July 2019
- Visited the Comcast Sunnyvale office location to explore the culture and work opportunities on the west coast.
- Had the unique opportunity to experience what it is like to work on the west coast for Comcast.

Computer Engineering 2020 Study Group   August 2017 to Current
- Mentor and leader for one of the largest engineering study groups on campus.
- Study group consists of 10-15 students peaking at 20.
- Specialty is presenting alternative resources and solutions to provide a deeper understanding of material.
- Assist fellow engineers with industry insights, projects, events and positions that align with their interests.

Weill Cornell Medicine | Dalio Institute of Cardiovascular Imaging   June 2019 to Current
- Currently positioned in the engineering sub-team to research the integration between 3D segmented heart models derived from CAT scans and fluoroscopic images.
- Responsible for handling the processing of image data sets and training machine learning model.
- Successfully accelerated the rate of labeling images from transitioning to labeling by hand to utilizing Amazon Web Services and writing scripts that handle hundreds of images.

Comcast Xfinity Flex Video Shoot   July 2019
- Acted in training video for Xfinity Retail Sales Consultants on the mySource website.
- Assisted in recording audio and taking pictures for shoot.

Deloitte Case Competition   March 2019
- Effectively led a team of 4 engineers and presented a proposal for an autonomous vehicle company that included hiring, go to market, and partnering strategies.

Villanova in the Valley   January 2019
- Chosen to be 1 of 15 students brought to Silicon Valley through Villanova's immersion program.

Machine Learning Udemy Course (Python/Tensorflow)   Summer 2018
- Explored the foundations of different methods of machine learning such as supervised, unsupervised and reinforcement learning techniques.

GPU Tech Conference San Jose hosted by NVIDIA   March 2018
- Invited to NVIDIA's premier Artificial Intelligence and Deep Learning conference.
- Performed training and learned to utilize the Jetson Dev Kit and Drive PX autonomous driving system.

Villanova University Idea Accelerator   August 2017 to Current
- Run and manage the 3D printing space at Villanova's Entrepreneurship center.
- Built and programmed the network to manage and remotely access 3D printers anywhere on campus.
- Walk-in CAD design to 3D printing is a service offered to make student ideas and designs a reality.