Hamlet Jaquez

Aiming to bring creative ideas to various projects while modernizing solutions to bring them in tandem with our modern digital age.

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Work Experience

10/2016 – Present — Ridgewood, NJ

STEM Counselor/Educator

Little Ivy Academy, LLC.

Description

Effectively communicate the basis of various STEM related fields of study to various middle school aged groups, including robotics, web development, game development, app development, and video making via after school programs and summer camps.

Education

09/2016 – 05/2019 — Newark, NJ

New Jersey Institute of Technology

Major: Computer Science
Minor: Applied Mathematics
Graduation Date: May 2019

09/2012 – 06/2016 — Wayne, NJ

Passaic County Technical Institute

Major Field of Study: Engineering | GPA: 4.068
Graduation Date: June 2016

Leadership

05/2018 – Present — Newark, NJ

President & Lead Programmer of NJIT's Robotics Team

01/2017 – 05/2018 — Newark, NJ

Vice President & Lead Programmer of NJIT's Robotics Team

New Jersey Institute of Technology

Description

Effectively delegate various tasks on all unique robotics projects, as well as assist in leading NJIT's VEXU Robotics Team to victory by critically thinking and problem solving the most effective and efficient courses of action through the yearly user-control & autonomous challenges.

04/2017 – 10/2018 — New Jersey, USA

College-Aged Teen Institute Staff (CATS)

Lindsey Meyer Teen Institute | Partners in Prevention

Description

Provide information and guidance to high school adolescents about the misuse of drugs, alcohol, and tobacco, as well as provide safe and enjoyable alternatives while building a supportive framework of friends and family around them.

Languages

English: Proficient | Spanish (Verbal): Semi-Proficient

C++ | Java | Python

Projects & Research

01/2019 – 05/2019 — New York, NY

5G and its Real-World Impact on Health and Safety

Verizon 5G Labs

Description

At Verizon's 5G Lab, I worked in a team setting in order to explore the boundaries of 5G network technology while developing cutting edge applications and hardware that will utilize the 5G Network. For my senior project, I was tasked with creating a computer vision application to serve as an assistive tool to patients with Dementia or Alzheimer's. I utilized tools such as OpenCV, TensorFlow, various object detection methods, and deep neural networks in order to effectively gather data and produce a working proof of concept, which covers a use case involving stove usage in a patient's household.

01/2018 – 09/2019 — Newark, NJ

Multi-Synchronous Autonomous Robotics

Robotics and Data (RAD) Lab

Description

This lab specializes in research and development with autonomous and synchronized multi-robot systems. I specifically worked with ground-based fleet robots, equipped with 6 different sensors, and am tasked with designing a multithreaded software solution in Java that will allow the control of multiple (~100) of these ground-based fleet robots.

01/2018 – 09/2019 — Newark, NJ

Low-Cost Lidar Sensor Fusion for Mapping Applications in Transportation Industry

New Jersey Institute of Technology

Description

A project proposed to the Undergraduate Research and Innovation competition at NJIT which won 1st place. It involves utilizing low cost lidar technology in conjunction with sensors such as accelerometers and gyroscopes in order to plot and map irregularities in our roadways and relay the information to our Transportation Industry.

Achievements & Certificates

Undergraduate Research and Innovation: 1st Place [03/28/2018]

The URI Program involves students submitting written research proposals to an executive committee, and then requiring presentations of their projects, along with demonstrations of their projects. For more information, please refer to the URI website: http://centers.njit.edu/uri/

Autodesk Inventor Certified User [03/04/2016]

Awarded to those who show mastery over Autodesk's 3D modeling software, Inventor, and certifies the user in being able to efficiently and effectively create 3D models utilizing this software.

OSHA-10 [01/13/2016]

Acknowledges that the recipient has successfully completed a 10-hour Occupational Safety and Health Training Course in Construction Safety and Health.