

# 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  
**STEM Counselor/Educator**  
Ridgewood, NJ  
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  
**New Jersey Institute of Technology**  
Newark, NJ  
Major: Computer Science  
Minor: Applied Mathematics  
Graduation Date: May 2019

09/2012 – 06/2016  
**Passaic County Technical Institute**  
Wayne, NJ  
Major Field of Study: Engineering | GPA: 4.068  
Graduation Date: June 2016

## Leadership

05/2018 – 05/2019  
**President & Lead Programmer of NJIT's Robotics Team**  
Newark, NJ

01/2017 – 05/2018  
**Vice President & Lead Programmer of NJIT's Robotics Team**  
Newark, NJ  
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  
**College-Aged Teen Institute Staff (CATS)**  
New Jersey, USA

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  
**5G and its Real-World Impact on Health and Safety**  
New York, NY  
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  
**Multi-Synchronous Autonomous Robotics Robotics and Data (RAD) Lab**  
Newark, NJ

### 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  
**Low-Cost Lidar Sensor Fusion for Mapping Applications in Transportation Industry**  
Newark, NJ  
New Jersey Institute of Technology

### Description

A project proposed to the Undergraduate Research and Innovation competition at NJIT which won 1<sup>st</sup> 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: 1<sup>st</sup> 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.