

Ricardo Ruben Rodríguez-Rivera

ricardo.rodriguez13@upr.edu | 787-698-7070 | Sabana Seca Station, Sabana Seca, Puerto Rico 0952

Objective

To actively apply knowledge and skills as a professional Computer Engineer through internships and Co-Ops.

Education

University of Puerto Rico Mayagüez Campus (UPRM), Mayagüez, Puerto Rico	August 2013 - Present
Bachelor's Degree in Computer Engineering	
Expected Graduation Date: May 2019	GPA: 2.7/4.0

Research

- | | |
|--|--------------------------------|
| Artificial Intelligence Undergraduate Research | August 2017 – Present |
| <ul style="list-style-type: none">Focused research on the field of artificial intelligence, neural networks and its uses and how to apply them.Created and trained large <i>convolutional neural networks</i> (CNN) to identify weather an image contains a cat or a dog utilizing TensorFlow.Using a pretrained CNN we aim to create an “Art-bot” which utilize the kernels or filters trained in the CNN to capture the style of an artist, and then emulate the style for a new portrait with any given base image. | |
| 3D Point Cloud Exploitation for Line of Sight Analysis | January 2017 – May 2017 |
| <ul style="list-style-type: none">Implemented of Algorithms with C/C++ utilizing the PCL Libraries in Visual Studio.Used code analysis to modify and implement more efficient ways to run code, accelerating the process time by a significant margin, also giving it the ability for faster efficiency utilizing parallel processing.Created a function for field of view, to limit points and only work with a specific area instead of the whole cloud. | |

Skills

Python	Parallel Processing	Team Oriented
Java	Project Management	Website Management
C, C++, C#	Proficient with Git	English (Proficient)
TensorFlow	Self-Learning	Spanish (Native)

Experience

- | | | |
|---|------------------------------|-----------------------------|
| R2 Communications, Toa Baja, Puerto Rico | West Coast Supervisor | May 2014- April 2017 |
| <ul style="list-style-type: none">Managed the installation of Fiber optics and copper networks of a local network.Organized technician and developed the routing for said cables.Keep track of deadlines and resources to keep the project on track | | |

Extra-Curricular

- | | | |
|--|------------------|----------------------------------|
| Computing Alliance of Hispanic-Serving Institutions (CAHSI – UPRM Chapter) | | January 2017 – Current |
| <ul style="list-style-type: none">Actively participate in workshops that focus on leadership, time management, and teamwork.Presented with an environment full of dedicated students that focus on different concentrations and allows for a variety of shared knowledge. | | |
| American Institute of Aeronautics & Astronautics(AIAA), UPRM | Member | August 2016- January 2017 |
| <ul style="list-style-type: none">Coordinated and participated in outreach visits to local STEM Career Fairs to promote STEM field studies in the Middle school and High School population of the U.S. Commonwealth of Puerto RicoDeveloped an online data base in order to organize and sort information of over 50 members within the association | | |
| Student Counselor “Team Made”, UPRM | Volunteer | August 2014- January 2016 |
| <ul style="list-style-type: none">Orient and teach freshmen about the university campus, and prepare them for life in the universityEducate students so they make correct decision and construct relationships that help towards their future. | | |
| Control System Society (IEEE), UPRM | President | May 2014- January 2015 |
| <ul style="list-style-type: none">Motivated and taught members within the association the importance and relevance of control systemsProvided tools and knowledge on how control system can be applied to projects at any scaleRe-established the IEEE in order to ensure the existence of the association | | |