# Guillermo Rodriguez

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## SUMMARY

Chemical Engineering and Humanities graduate; desires to use science and technology to create a positive impact on the world.

## EDUCATION

**University of South Florida**  Graduated***:*** *2018*Chemical Engineering, Bachelor of Science ***GPA****: 3.00*  
Humanities, Bachelors of Arts

## WORK EXPERIENCE

**Process Engineer Co-op | Chemical Recovery Department** January 2017 – July 2017

WestRock Covington, VA

* Troubleshot green liquor density systems by daily sampling of the recovery boiler green liquor, correlating results with equipment data, effectively automating control systems
* Created the first lime kiln thermal picture database to analyze weekly thermal distribution, potentially mitigating the formation of soda rings and reducing potential downtime
* Led daily morning and afternoon meetings to communicate pertinent information to the entire department

**Process Engineer Co-op | Environmental Department** September 2016 – January 2017

WestRock Covington, VA

* Optimized environmental systems and procedure for the segregation of landfill waste and the handling of naturally occurring radioactive material
* Documented and detailed environmental air emission regarding reciprocating internal combustion engines
* Troubleshot high chemical oxygen demand values for the bleach unit by taking measurements, assessing processes, and interpreting data

Math Assistant2014 – 2016KumonTampa, FL

* Facilitated the learning of math and reading skills of kindergarten to fifth grade students by grading worksheets and instructing new students on the Kumon method
* Created the first center employee manual to standardize the training experience

LEADERSHIP EXPERIENCE

Secretary*2015 - 2016*USF American Institute of Chemical Engineering Tampa, FL

* Designed creative weekly newsletters and emails for effective communication to 400 members regarding activities and events hosted by the organization, resulting in the highest turn out, and AIChE’s *Best Student Chapter Award*

Expo Chair*2014 – 2015*USF American Institute of Chemical Engineering Tampa, FL

* Directed the annual Engineering Expo Chemical Engineering exhibit, resulting in the EXPO Crowd Favorite Award for the exhibit
* Planned show content: nine unique chemical reaction stations, 70 volunteers, and over 500 volunteer hours
* Created a budget to maximize $3000 funding by submitting grant proposals and initiating partnerships with other student organizations
* Directed an engaging safety video to enforce personal protective equipment (PPE) and cautionary safety measures

## PROJECTS

**ChemE Car** September 2017 – Present

USF American Institute of Chemical Engineering Tampa, FL

* Research and design stopping mechanism of AIChE’s chemically powered car

## SKILLS

* *Web Developmen*t – HTML, CSS, JavaScript, Node, Flask, Django, Heroku, Bash
* *Languages* – English, Spanish
* Version Control – Git
* *Certifications* – EH&S, SACHE, CSWA

*Computing* – Excel, Python, Matlab, COMSOL