

# Michael Angel Rivas Valadez

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## EDUCATION

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**University of California, Berkeley**  
*B.S. Chemical Engineering*

Berkeley, CA  
August 2016 - May 2020

## PROFESSIONAL EXPERIENCE

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**NASA, Johnson Space Center**  
*Chemical Engineering Intern (USRA)*

Houston, TX  
January 2019 - Present

- Assisting in electrolysis testing to determine the relationships between different parameters in a silver electrode cell including voltage, water conductivity and surface area of electrodes
- Collecting data on different chemical and physical properties of potential materials to be used in long term water storage to ultimately select and test the ideal candidates
- Designing a system to quantify the performance of a silver ion water doser system and creating a modified version to perform with desired flow rates and silver concentrations
- Researching and designing components of a system to simulate the functions of the current water processing system used on the International Space Station

**Belkin International**  
*Sustainability Intern, Chemist*

Playa Vista, CA  
June 2018 - August 2018

- Dismantled 64 electronic products into homogenous components and tested for hazardous substances using an XRF Spectrometer
- Created test reports and documents confirming compliance with sustainability standards in the United Arab Emirates such as the Restriction of Hazardous Substances
- Collected energy and gas use data to calculate carbon emissions of the Belkin headquarters in Indiana
- Created a MATLAB application to facilitate packaging review for correct recycling and warning logos

**Cal Dining**  
*Marketing & Graphics Assistant*

Berkeley, CA  
August 2016 - Present

- Managed the design, production and placement of many marketing materials including hiring signs and instructional graphics for dining locations around campus
- Handled the complete re-signage of a university cafe from shelf labels to instructional signs
- Worked with different departments to complete various video, digital and print media projects
- Received the Spot Award for exceptional work representative of UC Berkeley's behaviors and values

## LEADERSHIP

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**American Institute of Chemical Engineers**  
*Media Chair*

Berkeley, CA  
August 2016 - Present

- Led a committee with second media chair to provide media content for corporate and social events
- Organized collaboration for an informative poster about chemical engineers to be placed around campus
- Implemented a program to scan and publish AIChE Berkeley Chapter newsletter archives online

## HONORS

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**American Chemical Society Scholar, PPG Scholar**

May 2016 - Present

- One of 350 students selected annually by the American Chemical Society with renewal based on ongoing academic performance in Chemical Engineering related courses
- Selected as a 2018 PPG Scholar among only 30% of current ACS Scholars

## SKILLS

MATLAB // Spanish // Photoshop // InDesign // Illustrator // Microsoft Excel // Microsoft Word  
Sustainability Regulations (RoHS, REACH) // Basic Reactor Design // XRF Spectroscopy