

Maury Lira

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Education

University of Illinois at Urbana-Champaign
Bachelor of Science in Mechanical Engineering
Minor in Business

December 2021
GPA: 3.6

Universidad Pontificia Comillas – Madrid, Spain
Bachelor of Science in Mechanical Engineering

Spring 2019
GPA: 4.0

Experience

Ameren

Digital Intern

Champaign, IL
January 2020 – Present

- Developed an application that automates the downloads for financial statements saving 2000 hours annually on Blue Prism
- Created a dashboard for a virtual power plant, showing future projections of energy sources and their cost
- Constructed a file naming convention and organization structure for the archival and future documents of the center
- Tested apps in production for the transition to a new virtualization software, allowing for easier and more secure access to apps
- Collaborated with multiple teams using the scrum process of Agile methodology delivering timely and quality deliverables

Cummins Inc.

Product Validation Co-op

Columbus, IN
June 2019 – December 2019

- Wrote a MATLAB script that processes and plots data from the test ran in 69 seconds
 - Analyzed experimental data comparing a product already in use to the new product
 - Communicate with team members to access the status on validation test, to create a glide path for the technical project leader
 - Updated a master database, allowing future employees to use already validated tests on future programs
 - Developed tests plans for system components in order for them to be ran for the supporting program
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Research

Frosting on Heat Exchangers

Undergraduate Research Assistant

Champaign, IL
September 2018 – December 2018

- Conducted frosting experiments on heat exchangers, gathering data on the effects of condensate frosting
- Implemented a closed environment for the experiment, limiting noise on the data collected
- Updated the Standard Operation Procedure (SOP), to create an easy to follow process students may recreate in the future

Defrosting on Biphillic Metals

Undergraduate Research Assistant

Champaign, IL
September 2017 – May 2018

- Ran defrosting experiments on samples, gathering data on the effects of defrosting on biphillic metals
 - Designed and implemented the experimental setup, ensuring the experiments ran smoothly and efficiently
 - Fabricated and cleaned copper oxide samples, reducing the error due to debris
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Extracurricular

Society of Hispanic Professional Engineers

Committees: Community, Fundraising, New Member Round Table

Champaign, IL
September 2017 – Present

- Create Microsoft Excel files of expenses and profits for fundraisers, creating a paper trail for the projects conducted
 - Plan fundraisers with committee members, ensuring the organization has money to fund events
 - Hosted a high school senior, showing the student life as an engineering student at the University of Illinois
 - Communicate with students grade 12 and below from underrepresented communities to discuss higher education
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Skills

Language: Spanish
Technical: Proficient in Microsoft Excel, Jira
Programming Languages: Python, MATLAB, SQL, R
CAD: Creo 3.0, Autodesk Inventor

Awards

Hispanic Scholarship Fund Scholar
Boeing Women in Engineering Scholarship
Illinois Engineering Achievement Scholarship
Stephens, Roberts Mechanical Engineering Scholarship
President's Award