

Joseph Coyotl

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EDUCATION

Bachelor of Science in Aerospace Engineering	May 2027
University of Florida	
Engineering FLAME Program	May 2023
Florida International University	
Honors: Top 10% Class of 2023 (Hialeah Gardens Senior High)	

EXPERIENCE

Lab Technician	June 2022 - August 2022
<i>PATHS-UP Engineering Research Center</i>	<i>Miami, FL</i>
<ul style="list-style-type: none">Performed tensile testing on tubes to highlight mechanical properties, such as, yield point and elastic modulusFormulated liquid solutions with similar optical properties as human skin and blood, and followed proper sanitization procedures post and pre-data collectionOperated pressure servo controller and pressure monitor to obtain the amplitude over time from a PPG sensor when the blood solution flowed through the artery simulator	
Website Manager	June 2021- July 2021
<i>Cool Stuff & Accessories</i>	<i>Miami, FL</i>
<ul style="list-style-type: none">Executed risk management techniques to increase overall term frequency of products' names, and descriptions by 30% by utilizing Google Trend's item search bank.Uploaded over 250 furniture products onto the website and Excel with a 100% accurate self-calculated tax pricing	

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

XTREME Engineering Director	September 2023 – Present
<i>Society of Hispanic Engineers</i>	<i>University of Florida, FL</i>
<ul style="list-style-type: none">Interacted with the VP of technology for meetings, event objectives, and methods of event branding, with social media and Adobe PhotoshopCatalogued materials to ensure technological supplies are working correctly for any planned events	
Manufacturing Lead	September 2023 – Present
<i>VEX U Team</i>	<i>University of Florida, FL</i>
<ul style="list-style-type: none">Operated drill press, vertical bandsaws, and angular grinders when going through the manufacturing process for altered robotic pieces, and custom CAD modeled systems.Utilized critical thinking skills to design and 3D print customized components to effectively include angular pneumatic and motorized systems onto a robot	
Robotics Captain	September 2022 – May 2023
<i>VEX Robotics</i>	<i>High School Hialeah Gardens High, FL</i>
<ul style="list-style-type: none">Tracked and analyzed competition robots and team performance to improve future strategyImplemented lean principles to make team work effectively as a whole and as individuals to maximize time	
TSA Competition Project	September 2021 – February 2022
<i>Animatronic for Children's Hospital</i>	<i>High School Hialeah Gardens High, FL</i>
<ul style="list-style-type: none">Constructed the design and manufacturing of electronic and welded components of the animatronicStructured the design process and created charts to compare cost-effectiveness of the animatronic while also quickly learning simple child psychology to improve the project's color scheme, movement speed, and overall presence to better fit a children's hospital.Fabricated circuit boards and programmed the system to play a 4-variable color Simon Says game	

SKILLS

Project Applications: SolidWorks, Arduino, Soldering, Welding, Java, Lean Six Sigma Team Cost & Flow Experience
Certifications: RECF Robotics, RECF Aerospace Pre-Engineering , Microsoft Word, PowerPoint, and Excel Specialist
Languages: English (Native), Spanish