

Jazmin Renteria Gonzalez

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EDUCATION

University of Missouri - Columbia
Dual Bachelor of Science in Electrical Engineering & Physics
Minor in Mathematics

Expected: May 2025
GPA: 3.44

Honors: Eta Kappa Nu Honors Society Candidate, High Dean's & Dean's Honor Roll, Hispanic Scholarship Fund Scholar

SKILLS & INTERESTS

Coding, Software: C/C++, Python, Swift, Assembly, Arduino, Raspberry Pi, LTSpice
Fabrication, Modeling: electrical harnessing, 3D printing, Siemens NX (CAD), Altium (PCB Design)
Languages: English (fluent), Spanish (fluent), German (beginner)
Interests: rock climbing, weightlifting, photography, cooking, language learning, chess

RELEVANT EXPERIENCE

NASA Langley Research Center, *Electronics Engineering Intern* – Hampton, VA **May 2023 – Present**
• Assisting in the electrical PCB design for NASA's project RAVEN SWFT, enabling research in eVTOL aircraft technologies for future research and collaborations in the industry and beyond

NASA Langley Research Center, *Electrical Engineering Intern* – Hampton, VA **June 2022 – August 2022**
• Designed an energy harvesting circuit that displays a visual warning when ambient EMF levels are elevated, made as sensitive as possible, compared different topology layouts for efficiency. Explored different industry uses for emerging technologies
• Communicated effectively with senior leadership on design changes, continuously identified and developed the BOM

Analog/Mixed Signal VLSI & Devices Laboratory, *Research Assistant* – Columbia, MO **February 2022 – May 2022**
• Support graduate and doctorate personnel in developing and conducting research projects in the area of RF energy harvesting for biomedical and IoT applications
• Learn and understand theories in circuits, electronics, energy harvesting, and RF engineering to further progress these projects

Energy, *Distributed Energy Resources Intern* – Kansas City, MO **June 2021 – July 2021**
• Prepared load transmission/distribution study analysis using given software and hardware knowledge for renewable energy technologies, resulting in an average 15% total savings rate per residential home per month

Engineering Projects, *Student* – Columbia, MO
• Assembly, Microprocessor – Created a Caesar Shift Cipher program that generates an encrypted output based on user input by shifting ASCII values using Assembly on a 32-bit Arm® Cortex®-Microprocessor
• PCB Design, Robotics – Execute the PCB design an Almond Board v1.2 for an Open Bionics Ada robotic hand, which was discontinued during our design phase

LEADERSHIP

Society of Hispanic Professional Engineers, *President* – Columbia, MO **May 2022 – Present**
• Semifinalist for SHPE's 2022 National Convention Design Challenge, sponsored by Nissan Motor Corporation. Presented a viable solution in the electric vehicle market for increased sustainability in Nissan's LEAF and ARIYA future models
• Create events in partnership with SWE and NSBE that cultivate an inclusive environment in the College of Engineering
• Revamped the SHPE Mizzou chapter website, resulting in a 257% increase in sponsorship fundraising amounts for FY 2023

Greater Kansas City Community Foundation, *Student Advisory Board* **October 2022 – Present**
• Serve as the voice for over 400 students receiving the Hispanic Development Fund scholarship, creating equitable change by including student voices in organization's programming goals, services to the community, and effectiveness
• Create a criterion and application for the selection of local non-profits for grantmaking of \$10,000 through the Jacob L. and Ella C. Loose Foundation

SERVICE

Society of Hispanic Professional Engineers, *Member & Outreach Volunteer* **June 2021 – Present**
• Assist educators in moderating science discussions during K-12 national outreach events, cultivating an environment of learning for 100+ students interested in STEM careers in their national *Noche de Ciencias* events

Greater Kansas City Community Foundation, *Scholarship Aide* **December 2023**
• Assist high school students advance in scholarship requirements and essays while in Kansas City during academic breaks