

TAJUAN D. PICKETT-PINEX

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EDUCATION

University of Illinois at Urbana-Champaign 3.1/4.0

August 2022 - May 2027

Bachelor of Science in Electrical Engineering

- **ARISE** is a sub-set of the minority engineering program (MEP) of underrepresented and mainly first-generation students given a red shirt year for engineering.

Relevant Courses: Circuits I and Electricity and Magnetism | Intro to Computer E |

RESEARCH EXPERIENCES

Electric Machines at University of Michigan, Ann Arbor

May 2024 - August 2024

Electric machines and power student researcher

- **Advisor:** Heath Hoffmann, PhD, (Professor of Electrical Engineering)
- **Project:** Designed and built a distributed generator where electronics are intertwined with the machine

University of Illinois, Urbana-Champaign

August 2023 - May 2024

Power electronics and photovoltaics student researcher

- **Advisor:** Andrew Stillwell, PhD, (Professor of Electrical Engineering)
- **Project:** Engaging in research on solar array irradiance variations in solar PV panels with diverse physical orientations

PROFESSIONAL EXPERIENCES

Constellation, Morris, IL

June 2023 - August 2023

Design Electrical Engineer Intern

- **Objective:** Facilitated an engineering change for stator water cooling dissolved oxygen sensors
- **Main skills:** Passport software programming, print reading, and rad worker knowledge
- **Other skills:** Three way communication, attention to detail, soldering
- **Experience:** Designed and assembled power cables with soldered banana jacks for enhanced MSIV testing and coordinated an intern-led philanthropic event and volunteered at We Care of Grundy County

Tukuy Pacha, Cochabamba, Bolivia

September 2022 - January 2023

- **Objective:** Developed a brochure for Tukuy Pacha, an organization dedicated to serving marginalized and disabled citizens in Bolivia
- **Main skills:** Communication, intersectionality awareness, brochure designing
- **Other skills:** Cooperation, global service work, volunteering
- **Experience:** Facilitated meetings with Tukuy Pacha faculty and peers to align on the institution's mission and values. Presented the brochure during a visit to Bolivia

LEADERSHIP EXPERIENCES

Morrill Engineering Program (MEP) Peer Mentor

January 2023 - May 2024

- Participated in a leadership training program in Guatemala alongside fellow peer mentors
- Organized the exchange of resources, opportunities, and activities to enhance learning and development
- Provided individualized support to younger peers through one-on-one sessions, assisting in goal-setting, & navigating challenges

Illini Solar Decathlon | Photovoltaics & Electrical Systems Sub team

January 2023 - May 2024

- Led the Photovoltaics & Electrical Systems subteam, overseeing the design, integration, and implementation of solar energy and electrical systems for a sustainable home project.
- Collaborated with multidisciplinary teams to achieve project milestones and deliverables on a bi-weekly basis.
- Led the team and collaborated in an interdisciplinary team to design a Net-Zero two-story home for a family with a disabled member, as part of the 2022-2023 Concept team project