Romney Kellogg

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**Skills:**

* MATLAB
* Python
* SolidWorks (CSWA 2021)
* Data Analysis
* Excel
* Technical Writing
* PCB Design
* XENDEE
* B1 Spanish

**Education:**

*Arizona State University, AZ*  **2025**

PhD Systems Engineering

*Arizona State University, AZ*  **2022**

MSE Robotics and Automated Systems

*Arizona State University, AZ*  **2018-2021**

BSE Robotics Engineering

**Project Experience:**

USTDA Fiji Project to Electrify 75 Rural Sites

- Led techno-economic and load profile creation subgroup **2022- Present**

- Created Python code to run 75+ sites in batch optimization analysis with the XENDEE API

- Developed modeling methods that reduce load estimation analysis time by 80%

- Designed and ran test scenarios to justify project assumptions

- Co-authored 6 project reports relating to load demand

- Managed 2 student workers on data analysis and python activities

Energy Exhibit **2023**

- Consulted with design students to demonstrate function of wind power and power plants

- Designed electrical system and user interface for 2 interactive systems

- Reviewed and updated educational design to ensure appropriate representations of energy systems

Haboob Simulator **2022**

- Designed and implemented an electrical system for a haboob simulator for a children’s museum

- Coded and tested the haboob simulator

- Lead software design and development to include user interface

Rectilinear Locomotion Robot  **2020**

- Designed and implemented an electrical system for a foldable robot

- Lead the software development for the control system

**Work Experience:**

ASU LEAPS Graduate Research Assistant **2022-Present**

**-** Conducts research in energy system planning for off-grid systems globally

- Codes in MATLAB and Python to optimize large-scale energy control systems

- Creates learning and training content on electricity and energy systems for all ages

ASU LEAPS Research Assistant **2019-2022**

**-** Created workforce development content within the microgrid and energy field

- Created K-12 content within the microgrid and energy field

- Provided consultation with microgrid testbeds for military applications

- Tested and maintained large-scale energy assets

**Volunteer Experience:**

FRC Team 6471 Mechanical Mentor **2021-Present**

**-** Mentors 20 high school students in engineering design, mechanical design, fabrication,

manual and CNC machining

**Achievements:**

ASU LEAPS Scholarship Recipient **2025**

SCI4DI Nominee **2024**

Dean’s Fellowship Recipient **2022**