Romney Kellogg

(360)335-4478, romnkello@gmail.com, linkedin.com/in/r-kellogg/

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