EMMA JOHNSON

Graduate Student Researcher

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PROFESSIONAL SUMMARY

Enthusiastic researcher with two years of hands-on experience in analyzing energy consumption and efficiency in manufacturing systems. Proficient in leveraging data analysis and statistical methods to drive research initiatives. Passionate about contributing to innovative energy solutions and enhancing sustainability practices through collaborative research efforts.

WORK EXPERIENCE

Graduate Student Researcher

Feb / 2024-Ongoing

Pineapple Enterprises

Santa Monica, CA

1. Analyzed data related to energy consumption in diverse manufacturing systems.
2. Investigated energy consumption patterns across multiple sectors to identify efficiency improvements.
3. Collected and analyzed data for water treatment facilities, assessing energy use based on size.
4. Collaborated with a team at LBNL to evaluate energy efficiency of mobile units for military applications.
5. Processed and analyzed big data from two mobile energy units to enhance operational efficiency.
6. Authored and prepared materials for professional publications and conferences.
7. Presented findings at industry conferences, highlighting innovative energy solutions.

Graduate Student Researcher

Feb / 2023-Feb / 2024

Cactus Creek Solutions

Phoenix, AZ

1. Focused on optimizing manufacturing efficiency through renewable energy integration.
2. Studied energy demand from machinery and its alignment with renewable energy sources.
3. Compared geographical energy supply variations and their implications for renewable energy feasibility.
4. Analyzed different energy storage technologies to find the most efficient solutions.
5. Evaluated carbon footprint reductions from transitioning energy supplies in U.S. facilities.
6. Collaborated with engineers from Lawrence Berkeley National Laboratory on a DOE-funded fuel cell project.

EDUCATION

Master of Science in Energy Systems

Feb / 2022-Feb / 2023

University of California, Berkeley

Phoenix, AZ

Focused on renewable energy technologies and energy efficiency in manufacturing.

SKILLS

- Energy Systems Analysis
- Data Visualization
- Experimental Design
- Statistical Modeling

ACHIEVEMENTS

- Reduced energy consumption by 15% in manufacturing processes through data-driven strategies.
- Developed a comprehensive analysis framework for evaluating energy efficiency in various sectors.
- Contributed to a peer-reviewed publication on renewable energy applications in manufacturing.