Diana Cambero Inda

dianaci@umich.edu | Ann Arbor, US | LinkedIn

Education

University of Michigan 2024 – 2026 (Expected)
M.S.E. in Nuclear Engineering and Radiological Sciences *Ann Arbor, US*

Tecnológico de Monterrey Aug 2019 – Jun 2023
B.S. in Sustainable Development Engineering | GPA: 95/100 *Mexico City, MX*

University of California, Berkeley Aug – Dec 2022
Exchange student, Department of Nuclear Engineering | GPA: 3.6/4 *Berkeley, US*

Awards and Scholarships

- IAEA Marie Skłodowska-Curie Fellowship (2024–2026)
- CONAHCYT Graduate Fellowship (2024–2026)
- Academic Talent Scholarship at Tecnológico de Monterrey (2019–2023)

Research and Teaching Experience

Graduate Student Research Assistant Jan 2025 – Present
University of Michigan *Ann Arbor, US*

- Researching community engagement and participatory design tools to support democratic energy transitions; mentoring undergraduates and co-authoring two academic papers.

Graduate Student Instructor Sep – Dec 2024
University of Michigan *Ann Arbor, US*

- Led weekly labs for introduction to engineering courses using VR technology; assisted in community engagement workshop, and graded coursework.

Industry and Academic Projects

Full Core PWR Analysis (CASMO4, SIMULATE3) Jan – May 2024

- Designed a fresh loading pattern to achieve a longer cycle length while adhering to peaking factor limits and evaluated an equilibrium core for a Westinghouse PWR using CASMO4 and SIMULATE3.

Transient Analysis of a Seismic Event Impact on a HTR (AGREE) Jan – May 2024

- Conducted transient analysis of a seismic event impact on a High-Temperature Pebble Bed Reactor (PBMR), focusing on inherent safety features. Analyzed the reactor behavior under PLOFC and DLOFC accidents using spatial and point kinetics.

GENERAC Engineering Challenge May – Jun 2022

- Led the prototyping of a chemical re-refining process using a solvent/clay method to recycle used motor oil, supporting a circular economy business model.

Siemens Energy Challenge (CyclePad) May – Jun 2021

- Designed a thermoelectric generation plant with steam cogeneration to supply a paper company. Co-won Best Project award.

Professional Experience and Volunteering

Manufacturing Supervisor Summer 2023
Schneider Electric *Mexico City, MX*

- Managed production line operations at Schneider Electric's Mexico City plant.

Sustainability Assistant Aug – Dec 2021
IBBY Foundation *Mexico City, MX*

- Collaborated with the sustainability coordination team. Reorganized the foundation's database and conducted literature reviews for ongoing projects.

Skills and Software

- **Reactor analysis and modeling:** CASMO4, SIMULATE3, AGREE, RELAP5, CyclePad, SimaPro
- **Programming:** Python (pandas, numpy, scipy, seaborn)