Diana Cambero Inda

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F-1 student eligible for OPT (STEM) | **Internship sponsorship can be provided by the IAEA**

Education

University of Michigan 2024 – 2026 (Expected)
M.S.E. in Nuclear Engineering and Radiological Sciences | GPA: 3.83/4 *Ann Arbor, US*
Relevant coursework: Nucl Reactor Theory, Kinetics, Safety Analysis, Core Design and Analysis

Tecnológico de Monterrey Aug 2019 – Jun 2023
B.S. in Sustainable Development Engineering, Energy focused | 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) – **includes funding for an industry internship** (up to 8 months)
- Mexico's National Council of Humanities, Sciences and Technologies (CONAHCYT) Graduate Fellowship (2024–2026)
- Academic Talent Scholarship at Tecnológico de Monterrey (2019–2023)

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.

Skills and Software

- **Reactor & Safety:** Reactor kinetics, transient safety analysis, reactivity feedbacks; AGREE, CASMO4, SIMULATE3, PARCS
- **Modeling & Analysis:** CyclePad, simulation post-processing, statistical analysis
- **Programming:** Python, Linux, C++ (basic) **LCA:** SimaPro

Research and Teaching Experience

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

- Conducted interdisciplinary research on community engagement and participatory design tools to support democratic energy transitions; mentored undergraduate students and co-authored two conference papers:
  - *Integrating Public Perspectives in Microreactor Facility Design.* Proceedings of the 2025 ANS Winter Conference.
  - *Assessing the Potential of Generative AI Models as Participatory Design Tools.* Proceedings of the 2025 ANS Winter Conf.

Graduate Student Instructor Fall 2024 & Fall 2025
University of Michigan *Ann Arbor, US*

- Led weekly labs for introduction to engineering courses; designed and graded technical assignments and project reports.