

CALEB MILLER

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EDUCATION

The University of Texas at Austin, Austin, TX
PhD in Mechanical Engineering

Expected May 2027

The University of Texas at Austin, Austin, TX
Bachelor of Science in Physics, GPA 3.59

December 2022

TECHNICAL SKILLS

- Proficient in C++ and Python
- Familiar with Bash, PETSc, HDF5, SCALE (Origen), MCNP, and Mathematica

EXPERIENCE

Cockrell School of Engineering, The University of Texas at Austin, Austin, TX
Engineering Scientist Associate

Jan 2023 – August 2023

- Developer for a system thermal hydraulics code using mostly C++ with some python
- Implemented a mass and momentum linear solver as well as a scalar transport linear solver using PETSc
- Helped develop a coupling interface with MPACT

Cockrell School of Engineering, The University of Texas at Austin, Austin, TX
Undergraduate Research Assistant

May 2022 – August 2022

- Simulated nuclear depletion using Origin to assist in the design of a fueled molten salt experiment
- Created several python scripts to streamline and automate collaboration between thermochemical and nuclear analysis
- Augmented MCNP input decks of the NETL reactor to collect flux spectrum for the beam ports

City Year Chicago, Chicago, IL
Americorps Member

August 2015 – June 2016

- Assisted a 4th grade teacher full time leading small groups of 4th graders who tested two or more years behind grade level working with 30 students over the course of the year
- Organized a school wide after school program collaborated with other local organizations and Chicago Public School administration
- Totaled over 1700 hours of service between training and teaching students

AWARDS

Cockrell School of Engineering, Multi-Year Fellow

August 2023