

# Nuclear Engineer Bangkok, Thailand

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Looking forward to collaborating with a team solving big problems with major worldwide impact.

### Skills\_

### MODELING AND SIMULATION

• Computer code simulation, data analysis, process automation.

#### LANGUAGES

• R, Perl, Python, Fortran.

#### **LEADERSHIP**

 Principal contributor for topical report, license amendment request, and guidance development safety review teams, presenting information to mid-size audiences, mentorship of peers, explaining technical material to non-technical audiences including members of the public and management, oversight of interns.

## **Experience**

**NUMARK Associates, Inc.** 

Remote

CONSULTING ENGINEER

July 2021 - Present

Commercial nuclear power plant licensing for an international regulatory authority specializing in core physics methods verification and validation.

U.S. NRC Rockville, MD

NUCLEAR ENGINEER

March 2009 - June 2019

- Planned/Conducted complex technical reviews in core nuclear engineering areas for the Offices of New Reactors and Nuclear Reactor Regulation (e.g., criticality, shielding, nuclear fuels, and method verication/validation) coordinating with project managers and technical staff in crosscutting disciplines for several large projects (e.g., new reactor licensing, license renewal).
- Planned/Conducted research for the Office of Research: FAVOR/DAKOTA coupling for uncertainty quantification studies; SCALE-MAVRIC/DAKOTA coupling for uncertainty quantification studies to assess safety margins of degraded PWR bioshield concrete; facilitated INL MOOSE-based Grizzly code installation and training for modeling of engineering fracture assessments of reactor pressure vessels on shared internal cloud-hosted Linux systems.
- Proficient in safety evaluation reporting and confirmatory analysis including: Use of computer codes to perform simulations (e.g., SCALE code suite, MCNP, DAKOTA); complex data analysis using statistical software packages; use of various programming/scripting languages for software development, input/output processing, database management, and creating dynamic figures/reports/presentations.
- Communication and reporting skills: Development and presentation of original research in support of NRC guidance development for various audiences (e.g., senior level management, ACRS, national/international conferences).
- Collaboratively developed new guidance documents (e.g., spent fuel pool criticality safety and neutron fluence regulatory guides); NRC representative on ANS 19.10 standard committee.
- · Developed and provided training (mostly one-on-one mentoring). An example can be provided upon request.
- Collaborated with international cohorts via participation in OECD/NEA Working Party on Nuclear Criticality Safety and associated expert groups including contributions to calculational benchmark reports.

### Education

**University of Florida** 

Gainesville, FL

2006 - 2009

MS, Nuclear Engineering

- Research Assistant for radiation transport theory course
- Master's thesis: Detailed Neutron Flux Characterization of the Experimental Shield Tank Facility at the UFTR
- Received EIT certification

University of Florida

Gainesville, FL

2002 - 2006

- BS, Nuclear Engineering
- Inducted into Alpha Nu Sigma Honor SocietyMember of American Nuclear Society (UF Chapter)