

ABHISHEK KC

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EDUCATION

The University of New Mexico
Bachelor in Nuclear Engineering

Albuquerque, NM
Graduation Date: May 2022

The University of New Mexico
Masters' in Nuclear Engineering

Albuquerque, NM
Graduation Date: May 2025

SKILLS & INTERESTS

Skills: Microsoft Office (Excel, Word, PowerPoint), MATLAB, Python, SCALE 6.2

Interests: Next generation nuclear reactors, radiation transport, radiation shielding, modeling and simulation, material characterization and analysis, radiation damage

WORK EXPERIENCE

The University of New Mexico
Research Assistant

Albuquerque, NM
Sep 2023 - Present

- Experimental researcher advised by Dr. Eric Lang
- Conducted research on effect of radiation on nuclear alloys
- Characterization and analysis of material property and the effect of irradiation on the alloys

Senior Design

High Density Neutron Pulse source

Albuquerque, NM
Jan 2022 - May 2022

- Designed a Deuterium-Deuterium pulse powered neutron source for the University of New Mexico Nuclear Lab as a part of senior design project
- Used SCALE 6.2 to model the neutron source inside the lab and calculated preliminary dose and compared this value with hand calculations, ensuring that these values were well within the regulatory limits
- Implemented iterative problem-solving method in collaboration with three other team members working on different parts of the system to ensure all design requirements were met
- Presented the design idea at the annual SoE design competition
- Prepared a through report on the project at the end of semester

Zimmerman Library

Student Worker

Albuquerque, NM
Aug 2021 - Jan 2024

- Managed and organized library materials, including cataloging over 1000 books and ensuring accurate inventory counts
- Assisted library patrons with locating resources and conducting research, resulting in a 20% increase in positive customer feedback
- Implemented a streamlined checkout process for library materials, reducing wait times by 15% and improving customer satisfaction

Center for Academic Program Support (CAPS)

Physics Tutor

Albuquerque, NM
Aug 2020 - May 2021

- Developed personalized learning plans for 30+ students resulting in an average grade improvement of one letter grade.
- Developed and delivered customized physics lesson plans to 20+ students, resulting in a 75% increase in their grades on exams and quizzes.
- Conducted weekly group study sessions for 15+ students, resulting in a collective grade improvement of 30% over the course of the semester.

Center for Academic Program Support (CAPS)**Albuquerque, NM***Online Learning Assistant**Aug 2020 - May 2021*

- Assisted 2 university professors teach Physics 1 classes online
- Developed and executed innovative online teaching strategies, resulting in a 30% increase in student engagement and a 15% improvement in exam scores.
- Facilitated weekly discussion sessions with students, leading to a 20% increase in participation rates and improved understanding of course materials.
- Organized weekly group study as well as Q&A sessions for those classes

The University of New Mexico Children's Campus**Albuquerque, NM***Student worker**Nov 2019 - Aug 2020*

- Prepared nutritious meals for up to 200 children daily, ensuring compliance with dietary restrictions and reducing food waste by 15% through portion control strategies.
- Collaborated with campus staff to organize weekly cooking classes for children, resulting in a 30% increase in student enrollment and positive feedback from parents.
- Maintained a clean and organized kitchen environment, achieving a 100% passing score on all health inspections conducted during the academic year.

Sodexo Inc.**Kirksville, MO***Student worker**Jan 2019 - May 2019*

- Prepared over 500 meals per day for students and faculty, ensuring timely delivery and quality standards were met.
- Collaborated with the head chef to create a weekly menu that incorporated locally-sourced ingredients, resulting in a 20% increase in customer satisfaction.
- Ensured smooth operation by collaborating with a diverse team of 12
- Reduced the food waste by implementing and ensuring proper food storage

Truman State University Residence Life**Kirksville, MO***Front Desk Associate**Jan 2019 - May 2019*

- Managed front desk operations for a university dorm, ensuring efficient check-in and check-out processes for over 500 students per semester
- Collaborated with the housing department to develop and enforce policies and procedures, leading to a 25% reduction in noise complaints from residents
- Maintained an active inventory of utensils, games, and essential items

Society of Physics Students**Kirksville, MO***Physics Tutor**Jan 2018 - May 2019*

- Utilized interactive teaching methods, resulting in a 95% retention rate for students who completed the introductory physics course.
- Collaborated with the University Department to create supplemental materials and resources for students, including practice exams, leading to a 20% decrease in drop-out rates for introductory physics courses
- Developed personalized tutoring plans tailored to each student's specific needs, resulting in a 90% success rate of improved understanding and performance in physics concepts

Namaste Nepal**Kirksville, MO***Public Relation Chair**Mar 2018 - Mar 2019*

- Developed and executed a comprehensive PR campaign for the cultural club, resulting in a 25% increase in membership
- Organized and hosted successful cultural festivals, attracting over 500 attendees and winning The Best Cultural Event of the Year award
- Established strong relationships with local media outlets, resulting in the club being featured in three major newspapers and two radio interviews

- Collaborated with other organizations to co-host university wide events

Society of Physics Students

Kirksville,MO

Secretary

Mar 2018 - Mar 2019

- Managed club communications by sending weekly newsletters and announcements to a mailing list of 1000+ active and former members
- Coordinated annual fundraising campaign, successfully raising \$2,000 to support club activities and initiatives
- Improved club engagement and participation by organizing monthly guest speaker events, resulting in a 20% increase in attendance

Truman State University Residence Life

Kirksville,MO

Resident Assistant

Aug 2017 - Dec 2018

- Coordinated and facilitated weekly group activities for 30 college students, resulting in a 90% increase in student engagement and retention throughout the academic year.
- Implemented a peer mentorship program, matching incoming freshmen with upperclassmen based on shared interests and academic goals, resulting in a 75% decrease in first-year attrition rates.
- Collaborated with university administration to organize an annual orientation event for 500 new students, increasing overall satisfaction ratings by 20% compared to the previous year.
- Assisted the University to organize various events meant to welcome the freshman class of approximately 2000 students
- Planned and executed events that promoted the wellbeing of the students in collaboration with other Resident Assistants
- Documented and resolved any situation that violated university regulations

KC Nirman Sewa

Shivraj,Nepal

Administrative Assistant

Dec 2015 - Jul 2016

- Assisted with the management of construction project budgets, tracking expenses and providing regular reports on financial performance
- Organized and maintained company records for over 30 construction projects, ensuring accurate documentation and facilitating easy access to information

AWARDS

Presidential Scholarship, A-level scholarship, Truman State University Foundation Scholarships, International Amigo Scholarship, The University of New Mexico School of Engineering Scholarship, Truman State University Outstanding First Year Hire