

Nusrat Jahan Tania

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Address: 216/9 Baganbari Uttar Vasantek, Dhaka.



TECHNICAL SKILLS

Software Proficiency:	Geant4 software
Programming:	C, Html
Windows Software:	Microsoft Office (MS Word, MS Excel, MS Power Point)
Expertise:	Team Leader, Quick Learner, Efficient Management
Strength:	I possess proficiency in Geant4 software and C programming, enabling me to excel in the field of Nuclear Science and Engineering. As a Team Leader, I've demonstrated strong leadership and efficient management skills. My ability to adapt to varying circumstances, make swift decisions, and maintain professionalism, along with my soft skills and problem-solving talent, positions me as a competent individual for roles in reputed nuclear & chemical firms.
Coursework:	Neutron Transport and Rector Physics, Nuclear Materials, Nuclear Reactor Thermal Hydraulics, Fuel Cycle and Radioactive Waste Management , Reactor Instrumentation and Control, Operation and Safety, Nuclear Power Plant Engineering, Nuclear Accidents Analysis and Radiological Emergency, In-core Fuel Management.
Language Proficiency:	Bengali, English, Hindi, Russian

WORK EXPERIENCE

Home Tutor

September 2019 – July, 2022

- Provided one-on-one instruction and personalized attention.
- Helped students building a strong foundation in the subject matter.
- Assisted with homework, assignments, and exam preparation.
- Fostered a positive and supportive learning environment.

THESIS

Title : Analysis of the design of radioactive waste storage container using GEANT4 software.

- Analyzed the design of a radioactive waste storage container using GEANT4 software.
- Focused on conceptual multi-layer shielding for radiation hazard reduction.
- Designed and analyzed various multi-layer shields using the GEANT4 toolkit.
- Utilized the open-source GEANT4 toolkit for simulation.
- Calculated shielding material thicknesses and provided optimized measurements.

PROJECTS

- “Waste Storage System”
 - Symbolic creation and analysis of nuclear power plant waste storage system
 - Visualization of the nuclear waste storage process.
- “Arduino Based emergency core cooling system”
 - Focuses on core cooling during loss of coolant accidents.
 - Addresses fuel cladding damage limitation.

EDUCATION

Bachelor of Science in Nuclear Science and Engineering	(GPA: 3.30) 2023
Military Institute of Science and Technology (MIST) Dhaka, Bangladesh	
Higher secondary School Certificate (HSC)	(GPA 5.00) 2017
Science, Adamjee Cantonment College Dhaka, BD	
Secondary School Certificate (SSC)	(GPA 5.00) 2015
Science, Muslim Modern Academy Dhaka, BD	

AWARDS & SCHOLARSHIPS

- Got scholarship in **Junior School Certificate** exam
- Got scholarship in **Higher Secondary School Certificate** exam

LEADERSHIP

- **Team Lead** in Arduino Based emergency core cooling system project.
- **Former member** at MIST Nuclear Engineering Club (**MNEC**) @ Military Institute of Science and Technology (MIST) (2019-2022)

REFERENCES

- **Dr. Abdus Sattar Mollah**
Department of Nuclear Science and Engineering,
Military Institute of Science and Technology (MIST), Dhaka - 1216
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