Sanchit Saxena

April 22, 1998
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Skills

Logical thinking
Problem solving abilities
Communication
Self-motivation
Time management
Determination
Team Work

Education

Indian Institute of Technology, Guwahati — **2020 – ongoing**
PhD in Structural Engineering
CPI: 9.29/10

PEC University of Technology, Chandigarh — **2016 – 2020**
Bachelors in Engineering (Civil Engineering)
CPI: 8.4/10

GTB Public School, Meerut — **2014 – 2016**
Higher Secondary (Science Stream)
Percentage: 92.2%

Delhi Public School, Meerut — **2013 – 2014**
Secondary
CGPA: 10

Research Experience

Doctoral Scholar, IIT Guwahati — **Jan' 2021 - Ongoing**

- Evaluation of radiation attenuation of different concrete configurations
- Development of full-scale testing shock tubes
- Blast and impact testing on conventional shock tubes
- Development of design guidelines for shear thickening fluid (STF) based bullet proof jackets
- Study on STF impregnated Kevlar fibres for bullet proof jackets

Research Assistant, IIT Roorkee — **Jan' 2019- July' 2019**

- Characterization of industrial rice husk ash (RHA)
- Utilization of RHA as supplementary cementitious material

Technical Skills

Programming Language: C++*, Python, MATLAB
Radiation simulating software: XCOM program, NGCAL, Geant4 software
Structural Analysis and Design: SAP2000, STAAD Pro, LS DYNA
Miscellaneous: MS Office (Excel, Word, Powerpoint)

* *Elementary Proficiency*

Achievements

Prime Minister's Research Fellowship (PMRF), May 2022: Recipient of PMRF fellowship by Ministry of Education (MOE), Govt. of India.

Graduate Aptitude Test in Engineering (GATE) 2020: Secured All India Rank 969 among 125974 candidates appearing for the test.

Publications

1. Kumar, S., Saxena, S., Sharma, H., Gangolu, J., & Prabhu, T. A. (2023). Development of Design Guidelines using Probabilistic Framework for The Development of Smart Thickening Fluid Based Ultra Resistant Adaptive Kinematic Soft Human Armor (SURAKSHA). Reliability Engineering & System Safety, 109277.
2. Kumar, S., Saxena, S., & Sharma, H. (2022). Ballistic Performance Evaluation of High-Performance Fabric Due to Interyarn Friction. Practice Periodical on Structural Design and Construction, 27(4), 04022043.

Extra-Curricular Activities

- Vice-Captain of IIT Guwahati Cricket team. (July 2022-Present)
- Core member of Octaves (Music Club), IIT Guwahati. (July 2022-Presnt)
- Founder of Project Aradhya N.G.O. (April 2020-December 2021)