



IRQAB FAROOQ

CIVIL ENGINEERING GRADUATE

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A civil engineering graduate, seeking a career that provides me opportunities to learn, innovate and carry out my skills, knowledge and strengths. Strongly interested in innovations and inventions through research.

EXPERIENCE

DEC 20, 2019 – JAN 31, 2020

PRACTICAL TRAINING, J&K ECONOMIC RECONSTRUCTION AGENCY

- Worked on the construction of 52 de-watering stations, in Srinagar, a WORLD BANK funded project under J&K Government, to overcome floods and drainage problems, post the 2014 floods in J&K, India.

JAN 1 – FEB 28, 2021

INDUSTRIAL INTERNSHIP, J&K PROJECTS CONSTRUCTION CORPORATION

- Worked on Earthquake Resistant Design (Base Isolation Project), for construction of multifacility women hospital at LD hospital, Srinagar, J&K, India.
- Analysis of structural design of multifacility hospital at GMC Srinagar, J&K, India.

MARCH 7 – OCTOBER 16, 2021

RESEARCH INTERNSHIP, (PROF. CS MANOHAR) INDIAN INSTITUTE OF SCIENCE - BANGALORE

- Structural dynamics and Vibrational control of bridges
- Health Monitoring of bridges.

AUGUST 1, 2022 – JULY 10, 2023

RESEARCH INTERNSHIP, (DR. FA SOFI) NATIONAL INSTITUTE OF TECHNOLOGY - SRINAGAR

- Structural Engineering
- Inverse damage detection in structures

PROJECTS

- Flood risk assessment of Srinagar city, J&K
- Analysis and classification of soils in Srinagar
- Analysis Oriented Confinement Model for Concrete in FRP-CONCRETE-(Stiffened)STEEL Double Skin Tubular Columns.
- Earthquake-Resistant Architectural & Structural design for residential houses.
- (Undergoing): Inverse Damage Detection in Structures

EDUCATION

2016 **SECONDARY**, R.P.S

- Percentage: 96.8%
- State Rank 9

2018 **HIGHER SECONDARY**, S.P.H.S.S

- Percentage: 85.6%
- Distinction

2018 – 2022 **B. TECH**, NIT SRINAGAR

- Civil Engineering
- CGPA: 8.643/10
- Project: A+ (10/10)

SKILLS

HARD SKILLS

- AutoCAD
- Revit
- Basic Ansys Mechanical
- ORIGIN

SOFT SKILLS

- Strong Work Ethic
- Quick Learner
- **Language Proficiency** in English, Urdu, Kashmiri, Hindi, Arabic.

TESTS

- **GRE** Score: 306
- **IELTS** Score: 7.5/9

ACTIVITIES

NON-ACADEMIC ACTIVITIES

- National Gold Medalist – Thang-Ta Martial Arts
- **Event Participation**
 - NEESF-NEES educational competition
 - State Camporee- J&K Scouts and Guides
 - **Runner up-** “Wizards Brains” held by IEEE in Nov, 2019 at NIT Srinagar
- **Team Lead**
 - **Head-**Publicity team in TECHVAGANZA 2019 (Annual techno-cultural fest of NIT Srinagar)
 - **Head-** Media and Publicity team in TEDxNITSRINAGAR- TED Talk event held in 2022
- **Event organizer**
 - “Whether technology is taking world towards a safer zone or a disastrous zone” (NIT Sri-IEEE) 2019
 - “What should be the effective tools to curb corruption in India” (NIT Sri-PGCIL) 2019

ACADEMIC ACTIVITIES

- Wani H., **Farooq I.**, Mohsin S. (2022). Damage Detection Method Optimization using Genetic Algorithms. *ICES Aakar 14th edition 2022*, Indian Institute of Technology Bombay (Ranked 1)
- Short term course on Advances in Geotechnical Engineering for Sustainable Development – NIT SRI
- Short term course on Data Collection and Analytics in Pavement Management Systems – IIT BHU
- **Attended workshops on,**
 - Computer applications in Civil Engineering.
 - Applications of MATLAB in Engineering.
 - Importance of Design Softwares in Civil Engineering
 - Advances in Structural Engineering and Materials

PUBLICATIONS

- Sofi F. A., **Farooq I.**, Bhat J. A., Tantray M.A. (2022) “Quantifying the sensitivity of input parameters in an ANN based committee networks model for estimation of steel girder bridge load-ratings”, *In: Kushvaha, V., Sanjay, M.R., Madhushri, P., Siengchin, S. (eds) Machine Learning Applied to Composite Materials. Composites Science and Technology. Springer, Singapore.* https://doi.org/10.1007/978-981-19-6278-3_8.
- **Farooq I.**, Wani H., Dar T.Q., Sofi F.A. (2023). “Analysis oriented Novel Confinement Model for Concrete In FRP-CONCRETE-STEEL Double-Skin Tubular Columns with Genetic Algorithm Based Finite Element Modelling” (**Under review- Engineering Structures Journal**)
- Wani H., **Farooq I.**, Sofi F.A.(2023). Inverse Damage Detection in Structures using Dynamic Properties with Genetic Algorithm based Optimization. (**Under preparation**)