

HARIS RAFIQ

STRUCTURAL ENGINEER | BIM SPECIALIST

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Milan
Italy, EU

I'm young, energetic, and skilled engineer specialized in building information modelling with a strong background in analysis and design of engineering structures. My aim is to ensure a challenging position in a growing organization where i would be able to use my capabilities to the maximum and in the process add value to the organization.

EDUCATION

EM	Politecnico di Milano Univerza v Ljubljani Universidade do Minho European Master in Building Information Modelling Marks Obtained: 9/10 or 105/110	2021-22
MS	National University of Science and Technology (NUST), Pakistan Master of Science in Structural Engineering CGPA Obtained: 3.40 out of 4.00	2018-20
BS	COMSATS Institute of Information Technology (CIIT), Pakistan Bachelor of Science in Civil Engineering CGPA Obtained: 3.62 out of 4.00	2014-18

HONORS AND AWARDS

EMJMD (Erasmus Mundus Joint Master Degree) Scholarship Building Information Modelling (BIM A+), European Union	2021-22
NBP (National Bank of Pakistan) Merit Scholarship National University of Science and Technology (NUST)	2018-20
High Achiever Award (Medalist) COMSATS Institute of Information Technology (CIIT)	2014-18
NTS (National Testing Service) Merit Scholarship COMSATS Institute of Information Technology (CIIT)	2014-18
NSTC (National Science Talent Contest) Award Pakistan Institute of Engineering and Applied Sciences (PIEAS)	2012-13
Pak-Turk Merit Scholarship Pak-Turk International School and College (PTISC)	2007-14

PROFESSIONAL EXPERIENCE

DS Stålkonstruktion (Goldbeck), Skanding Design Engineer (Steel Structures) Responsibility: Steel Modelling & Detailing	10/2022 - Present
European Master in BIM Erasmus Mundus Scholar (BIM A+) Responsibility: BIM in Metaverse	10/2021 - 09/2022
DesignEco (Private) Limited Structural Engineer (BIM) - Design Section Responsibility: Information Modeling	09/2020 - 09/2021
Public Works Department (PWD) Assistant Engineer (WORKS) - Highways Division Responsibility: Site Supervision	09/2019 - 08/2020
Public Works Department (PWD) Assistant Engineer (DESIGN) - Central Design Office Responsibility: Structural Designing	09/2018 - 08/2019

RESEARCH EXPERIENCE

Using Metaverse to improve BIM processes, Italy Slovenia Portugal Advisor: Dr. Matevž Dolenc (BIM A+) Software: REVIT & OMNIVERVE	2021-22
Non-Linear Seismic Analysis of a School Building, Pakistan Advisor: Dr. Fawad Najam (NUST) Software: REVIT & ETABS	2019-20
Axial Behavior of CFDST columns incorporating PVC pipe, Pakistan Advisor: Dr. Faisal Javed (COMSATS) Software: SAP2000	2017-18

TEACHING EXPERIENCE

College of Business and Technology (CBT) - Sarhad University, Pakistan Instructor, Bachelor of Technology (Civil Engineering)	2018
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- Supervised structural analysis and design modules
- Courses taught: Reinforced & Steel Structures, and Computer Aided Design
- Reworked the curriculum to meet accreditation standards

Department of Civil Engineering (DCE) - COMSATS University, Pakistan 2017
Teaching Assistant, Bachelor of Science (Civil Engineering)

- Conducted structural mechanics and concrete lab
- Assisted faculty in research related activities
- Coordinated in grading and labs with teaching staff

PUBLICATIONS

Research Paper 2021
Title: Axial Behavior of CFDST stub columns incorporating PVC pipe
Authors: Haris Rafiq and Faisal Javed
Journal: Crystals (MDPI)

Dissertation 2022
Title: Using metaverse to improve building information modelling processes
Authors: Haris Rafiq
Website: bimaplus.org

PROFESSIONAL AFFILIATION

Registered Engineer (R.E.) 2018 - Present
Pakistan Engineering Council (PEC)

Affiliate Member (A.M.) 2017 - Present
American Society of Civil Engineers (ASCE)

PRESENTATIONS AND INVITED LECTURES

International Conference 2022
Building Information Modelling
European Master in Building Information Modelling (BIM A+)
Italy/Portugal/Slovenia

Workshop 2020
Competency Based Training and Assessment (CBTA)
National Vocational and Technical Training Commission (NAVTTTC)
Jammu and Kashmir, Pakistan

COMMUNITY SERVICE

Connected Pakistan 2018-20
Social Leader, Pakistan
Project: Tree Plantation for Clean and Green Pakistan

COMSATS Sweet Home 2016-18
Ambassador, Pakistan
Project: Education Drive for Street Children

LANGUAGES

ENGLISH:	Advanced User (C1)
URDU:	Native Language (C2)
TURKISH:	Independent User (B1)
ITALIAN:	Basic User (A1)

COMPUTER SKILLS

REVIT	(Skill Level: Advanced)
NAVISWORKS	(Skill Level: Intermediate)
DYNAMO	(Skill Level: Intermediate)
TEKLA	(Skill Level: Advanced)
SOLIBRI	(Skill Level: Intermediate)
DALUX	(Skill Level: Basic)
ETABS	(Skill Level: Intermediate)
AUTOCAD	(Skill Level: Advanced)

REFERENCES

Dr. Faisal Javed, Assistant Professor
Department of Civil Engineering (DCE)
COMSATS Institute of Information Technology (CIIT)
Abbottabad, KPK, Pakistan
Email: arbabfaisal@ciit.net.pk

Dr. Muhammad Usman, Assistant Professor
School of Civil and Environmental Engineering (SCEE)
National University of Science and Technology (NUST)
Islamabad, ICT, Pakistan
Email: m.usman@nice.nust.edu.pk

Dr. Miguel Azenha, Director BIM A+
Department of Civil Engineering (DEC)
University of Minho (UMINHO)
Guimaraes, Minho, Portugal
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Dr. Matevž Dolenc, Assistant Professor
Faculty of Civil and Geodetic Engineering (FGG)
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Ljubljana, Slovenia
Email: matevz.dolenc@fgg.uni-lj.si