CURRICULUM VITAE

SYED FURQUAN GHOUS

LinkedIn Profile: https://www.linkedin.com/in/syed-furquan-ghous-00a841142/
Email id: syedfurquan0013d@yahoo.com

1. Educational Background

27th July 2018 - Sep 2022
Bachelor of Technology in Civil Engineering
Institution: Techno International New Town https://tint.edu.in

Field of Study: Civil Engineering
Final Grade: 8.7 CGPA (final)
National Classification: Bachelors
Occupational Skills/ Subjects covered: Physics, Engineering Mathematics, Basic Electrical Engineering, Finite Element Method, Constructional Engineering, Earthquake Engineering, Structural Analysis, Design of Steel and R.C. Structures, Engineering Mechanics etc.

1st Apr 2016- 1st May 2018
All India Senior School Certificate Examination
Institution: South Point High School https://southpoint.edu.in

Field of Study: Higher Secondary School Examination
Final Grade: 61%
Main Subjects: Physics, Chemistry, Mathematics, Computer Science, English

1st Apr 2014- 1st May 2015
All India Secondary School Examination
Institution: South Point High School https://southpoint.edu.in

Field of Study: Secondary School Examination
Final Grade: 78%
Main Subjects: English, Bengali, Social Science, Science, Mathematics, Physical Education

2 Language Skills

- Bengali
- English (IELTS 7.0 CEFR level: C1)
- Hindi

3 Technical Skills

Programming: Python, C++(Scientific), R, MATLAB R2020a
CAE(Computer Aided Engineering)/ Finite Element Analysis
ANSYS ACP, Static Structural and Explicit Dynamics 2019
Altair Hyperworks (Hypermesh- OptiStruct, RADIOSS)
CADD (Computer Aided Design and Drafting): AutoCAD 2015
Structural Analysis: STAAD Pro(SProV8i SS6), CSI Etabs 19
Foundation Design: STAAD Advanced Concrete Design (RCDC)
Documentation / Applications: Ms Word, Ms Excel, Google Docs, Google Sheets

4 Communication Skills

Good communication skills acquired as the Class Representative of Civil Engineering-2022 batch for a period of three consecutive years

5 Organisational/ Managerial Skills

(i) **Leadership skills:** (currently responsible for a team of 4 people from project group and a class of 53 students)
(ii) **Managerial Skills:**
1. Organisation and delegation
2. Interpersonal skills
3. Problem solving and decision making

(iii) Student convener of **Anti-ragging committee**, TINT

6

,

7 Teaching Experience/ Workshops conducted

3rd Feb, 2022
Trained pre-final year Civil Engineering students from **Techno Main Saltlake, Kolkata** on "Simply Supported Square Beam Design with Uniform Distributed Load(UDL)" -- explained how to use geometry modeller, mesh generation, perform section cuts; section-views, compared results with hand calculations for maximum beam deflection

10th March, 2022:
Trained pre-final year civil engineering students from **Techno International New Town, Kolkata** on "Cantilever Beam Analysis using Hypermesh-Optistruct(**L**inear **S**tatic **A**nalysis)" --calculation of deflection and stress by software, comparing answers with theoretical calculations

12th April, 2022:
Guided second year civil engineering students from **Techno International Batanagar, Mahestala and Asansol Engineering College, Asansol** with the interface of Staad Pro V8i SS6 and trained them to analyse a G+5 building along with its foundation design.

8 Projects/ Internships

Design and detail of a building(G+3) in Rajarhat, New Town:
(i) Floor and Grid Planning **(ii)**Slab Design **(iii)**Load and Moment Distribution (**iv)**Bending Moment and Shear Force Diagram **(v)** Design Shear **(vi)**Column and Footing Design **(vii)** Detailing of beam-column-footing

Design and analysis of steel factory shed in Gangtok, Sikkim:
(i) Truss Analysis for Dead, Live and Wind Load **(ii)**Connection, and Member Design **(iii)** Design of Tie, Rafter, Strut, Sling **(iv)**Design of Purlin, Compound column, Laced Beam, and base plate

1st Dec 2020 – 30th Dec 2020:
Preparation of Mix Design of M25 Grade of concrete for slab casting of MCHS Ltd. (commercial): Mix Design Report of M25 Grade of concrete for the slab casting of Mrigaya Co-operative Housing Society.
1st Apr 2021 – 5th May 2021:
Preparation of Geotechnical Investigation Report for VISHWAKARMA INFOTECH(commercial): (i) Analysis of Field Laboratory Test Data **(ii)**SBC calculation for Shallow Foundation **(iii)** Pile capacity calculation **(iv)** preparation of Geotechnical Investigation Report

1st Jul 2021 – 5th August 2021:
Preparation of Geotechnical Investigation Report for NJSS Raniganj:
(i) Analysis of Field Laboratory Test Data **(ii)**SBC calculation for Shallow Foundation **(iii)** preparation of Geotechnical Investigation Report

Impact Analysis of Composites using Finite Element Method(up for publication):
(i) Impact behaviour **(ii)**properties and strength of graphite/epoxy composite **(iii)**ball indenter **(iv)** application of boundary condition **(v)** solve for degree of freedom **(vi)** preparation of literature survey **(vii)** model considerations **(viii)** mathematical formulations **(ix)** study of numerical examples **(x)**material properties and effect of plastic strain **(xi)**composite strain analysis **(xii)** effect of indenter after low velocity impact

27th Jan- 9th Feb 2022:
Machine Vibration Analysis for Micro, Small & Medium Enterprises (MSME, Govt. of India) Testing Centre (commercial):
Monitor the levels and patterns of vibration signals within the workshop, detect abnormal vibration events, evaluating the overall condition of the new machine, studying the frequency spectrum, the periodicity of the collisions, design of damper to separate the vibration waves to the new machine.
1st March – 23rd March 2022:
Supervision-Preparation of Mix Design of M30 Grade of concrete for slab casting of AIRP PLANT AT KUPILA, MURSHIDABAD DIVISION, PHE, Dte, Government of West Bengal (commercial): Instructed new interns and guided them through the entire Mix Design process as per IS 10262:2019 and IS 456:2000

9 Courses:

(i) Udemy
- Advanced Engineering Mathematics- Fourier Series
- Discrete Mathematics
- 2022 Complete Python Bootcamp from Zero to Hero in Python
- Machine Learning A-Z™: Hands-On Python & R In Data Science
- Statistics for Data Science and Business Analysis
- Python for Data Science and Machine Learning Bootcamp
- ANSYS Training: An Easy Introduction with Applications
- Complete C++ course for starters: 2022 Edition
- Scientific Computing in C++

(ii) Coursera Everyday Excel Part-I

(iii) edX Computational Thinking for modelling and simulations- **Massachusetts Institute of Technology**

10 Recommendation References available on request.

11 Additional Information

Memberships:
- Founding member of **Sanrachana-Technical and Cultural Club of Department of Civil Engineering**, Techno International New Town
- **Convener**(representing Civil Engineering Department) for **Genesis- Tech Club of TINT**
- Student Member in American Society for Civil Engineers**(ASCE)**

Presentations:
- **Seismic Site Characterizations**

(Department of Civil Engineering, TINT, 24th Dec, 2021)
- **Introduction to Finite Element Methods**

(Department of Mechanical Engineering, TINT, 19th Feb, 2022)
- **Advanced Earthquake Resistant Techniques**

(Department of Civil Engineering, TINT, 15th April, 2022)

Declaration: I hereby acknowledge that all the information provided by me is true to the best of my knowledge and belief.