

**FALAK VATS** Address: 'Shrdha', Bagicha Colony, Abu Road, Rajasthan, India.

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## **SUMMARY OF QUALIFICATIONS**

- Strong educational background in Civil engineering from the Government University college of Rajasthan Technical University.
- Adept understanding of structural analysis, structural design, design of concrete structures, design of steel structures, foundation, and etc.
- An exceptionally hard-working individual with the interpersonal and communication skills to work and educate personnel at all levels of the organization.
- An excellent individual with a lot of knowledge regarding usage and creation of structural software and various methods used behind the screen.
- Unconventional problem solver with an abundance of research acumen and strength to handle multiple functions simultaneously.

## **EDUCATION**

- Civil Engineering, University College, Rajasthan Technical University, July 2019 Bachelor of Technology Result: 75.5% (Honors) (96.67Percentile in GATE)
- H.G. International School, CBSE 2015 H.S.C.E. Result: 84.20%, (93Percentile in JEE)
- H.G. International School, CBSE 2013 S.S.C.E. Result: 9.8CGPA

## **WORK EXPERIENCE**

1) Tirupati Constructions, Kota, India: Trainee May 2018 – July 2018

- Assisting the site engineers in regulating the work, supervising and overseeing the direction of the project.
- Learned how to read and understand the structural designs and how the bar bending schedule is prepared.
- Manage the installation of columns in the foundation and checked the reinforcement in the columns, footing, raft, and etc.
- Learned various practical aspects of civil engineering like how the safety of laborers is ensured and how the work is progressing as per the schedule.

2) Rahul Construction, Abu Road, India: July 2019-September 2019

- Inspected construction site of Police quarters to ensure design specifications and monitor progress as well as the safety.
- Coordinated with workers to execute work following the blueprint and plans accurately.
- Managed resources and estimated the upcoming needs for proper management of materials and keep the working hassle-free and on time.
- Conducted site tests for the quality of concrete and cement; and also inspected the construction materials quality to ensure quality work and project safety.
- Updated the detailed logbook daily for quality assessment purposes.

3) Chegg India Pvt. Ltd., New Delhi, India: Subject Matter Expert(Part-time) June 2018-Present

- Help students with the problems related to civil engineering subjects and Math.

## **RESEARCH WORK & PROJECTS UNDERTAKEN**

- B.Tech Seminar: The seminar entitled “Autoclaved Aerated Concrete” proposed to understand the usage, limitations and engineering properties of the versatile building material. Also, it discussed the variety of benefits that AAC provides when used as a building material in place of the conventional one.
- B.Tech Project: The project entitled “Program for Low-Cost Housing Using Waste Material”, focussed on the creation of a python program that can analyse, design and estimate a Low-cost House as per the IS-Codes for both the type of structures i.e. Load Bearing and Framed Structure. The program was applied to a problem for which the Kota site was chosen and waste material as per the target site. The chipped stones were selected as the aggregate with the crusher sand after passing the prescribed IS-Code tests. The building was drawn on the AutoCAD and the rest of the design and estimation were conducted by the python program.

## **PAPERS PUBLISHED**

- Published a paper titled “Autoclaved Aerated Concrete: Versatile Building Material” in Volume 5, Issue 3 Pd. 2092-2098 of International Journal of Advance Research, Ideas and Innovations in Technology(IJARIIT), in June 2019.
- Published a paper titled “Review paper on design and analysis of multi-storey building by the use of Stadd.Pro” in Volume 5, Issue 3 Pd. 327-328 of International Journal of Advance Research, Ideas and Innovations in Technology(IJARIIT), in May 2019.

## **SOFTWARE SKILLS**

- Stadd.Pro
- Stadd Foundation
- ETags
- AutoCAD
- Ms Office
- Revit(Basics)
- Octave GNU
- MATLAB
- Python
- CSS & HTML

## **ACHIEVEMENTS**

- Secured a 96.67 Percentile in GATE 2019 in the exam of Civil engineering.
- Secured a 93 Percentile in Joint Entrance Examination 2015.
- D-Licence holder in Football was one of the first 24 from the Rajasthan football association.
- Achieved 4th Rank in L@place 2016 held at the Rajasthan Technical University.
- Represented Sirohi District in State level U-19 Football Championship
- Won the District level U-19 Football Championship, for H.G. International school.

## **SOCIAL WORK**

- Periodic Blood donor
- Helped Joy of Giving society, placed water pots for animals.
- Taught maths to underprivileged students on weekends and holidays.

## **AREAS OF INTEREST & HOBBIES**

- Structural Engineering
- Football
- Table Tennis
- Teaching
- Project Management
- Structural Analysis & Designing
- Coding
- Technology and Computers