

VARDHAN GARG (M.TECH – CASAD)

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OBJECTIVE

To work with truthfulness and maximum potential and implement my acquired skills and knowledge in Structural Engineering and contribute my best to help the organizations grow and succeed.

ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE	BOARD	PERCENTAGE	YEAR
M.TECH	CASAD	Institute of Technology	Nirma University	81.1 %	2017 - 2019
B.TECH	Civil Engineering	Institute of Technology	Nirma University	72.9 %	2013 - 2017
XII	Science	Maharaja Agrasen Vidhyalaya	Central Board of Secondary Education (CBSE)	81.4 %	2012 - 2013
X	General	Maharaja Agrasen Vidhyalaya	Central Board of Secondary Education (CBSE)	91.2 %	2010 - 2011

WORK EXPERIENCE

Aarvee Associates Architects Engineers & Consultants Pvt. Ltd., Hyderabad (Railway Division) July 2019 – December 2019

- Involved in design of Splayed Wing Walls, Return Walls and Box Culvert according to IRS codal provisions for RVNL Project - Bridge Number 1283/1 at Jhansi, Prepared GAD drawings and RCC Drawings for the same.
- Performed manual calculations for design of Pier and Open Foundation, Abutment and Well Foundation for RVNL Project - Bridge No. 1 (Important Bridge) at Donal Khad.
- Performed manual calculations for design of Return Walls and Box culverts according to IRS codal provisions.

INTERNSHIPS

STUP Consultants Pvt. Ltd., Ahmedabad

May 2018 – July 2018

- Studied various components of RCC T-girder type bridge superstructure and its behavior with codal provisions
- Involved in Grillage Analysis of superstructure, design of intermediate and end diaphragm of RCC T-girder type superstructure

Pacifica Companies, Ahmedabad

January 2017 – April 2017

- Learnt various aspects of execution work from excavation related to construction of retaining walls, water tank, raft foundation, columns, shearwall, slabs, beams and staircase. Also involved in quantity estimation work for concrete and steel
- Involved in core and shell work of G +14 Residential building

Shivalik Projects, Ahmedabad

May 2016 – June 2016

- Studied structural, architectural, plumbing and electrical drawings and checking of reinforcement, sleeves and electrical pipes as per drawing at site for slabs, checking of reinforcement for diaphragm wall, column, shearwall, beam, ramp, unbonded post-tensioning works in beams and slabs, and construction aspects for each of the elements
- Involved in execution work for a G +13 commercial complex with 3 basement

L&T Constructions, Ahmedabad

December 2015

- Studied structural drawings and prepared bar-bending schedule for beam, column and shear wall and observed construction work of bonded post-tensioning work in slab, construction work of column, shearwall, ramp, load test of PT Slabs, fire resistant coating of steel beams, vacuum dewatering flooring of basement slab and ramp
- Involved in execution work for a G + 15 Commercial Corporate building with 3 basements

Reliance Industries Limited, Jamnagar

May 2015 – June 2015

- Involved in various quality tests related to cement, soil, aggregates, process of road construction and working of various machineries

Pacifica Companies, Ahmedabad

December 2014 – January 2015

- Involved in various finishing works like waterproofing, flooring, plastering, painting, installation of plumbing pipes in bungalows and underground drainage pipes for main line connection.

PROJECTS

Experimental Investigation on behavior of Concrete Filled Tubes, Guided by Prof. Sharad Purohit (M.Tech Dissertation)

- Study included understanding the behavior of Concrete Filled Tubes of different shapes (Square, Circular and Rectangular specimens) and different heights (short – 300 mm and slender – 800 mm) under concentric as well as eccentric loading and compare the design chart of composite column obtained experimentally and analytically.

- Short Columns of all three shapes exhibited local buckling near ends whereas slender columns of all three shapes showed global buckling type of failure on reaching peak load. Also strain gauges and dial gauges were used to monitor the strain and displacement of the specimen.
- It was concluded that Circular Concrete Filled Tube should be used as it has more load carrying capacity due to confinement effects.

Effect of fire on Concrete Structural Elements, Guided by Prof. Sharad Purohit (B.Tech - Major Project)

- Objective of this project was to study the behavior of concrete at elevated temperatures (600°C) and develop a fire resistant coating for the same.
- Study included conducting compressive strength, split tensile strength and flexural strength for concrete mix of M25 by replacing the cement with 30% flyash by weight and adding 0.3% polypropylene fibres by weight. Parameters studied were Without preloading – naturally cooling, sprinkling water immediately and instant testing, sprinkling water immediately and testing after one day and same combinations with preloading. Also developed vermiculate based fire resistant coating (epoxy based and marble powder based) and tested the same for compressive strength, split tensile strength and flexural strength.
- It was concluded that compressive failure load was maximum for the parameter Without Preloading – sprinkling water immediately and testing after one day. Marble powder based vermiculite coating gave the best results for compressive strength, split tensile strength and flexural strength with minimum strength reduction as compared to control concrete.

SKILLS

Software Known: C, C++, AutoCAD, STAAD Pro, ETabs, MIDAS Civil, Abaqus

Languages Known: English, Hindi, and Gujarati

ACADEMIC ACHIEVEMENTS

- Received **Certificate of Internship** for working as Campaign Associate in **Children's Education Trust**
- Received **Certificate of Excellence** for involvement in **Green Revolution Global Certification Program**, an initiative by **ICCE** to educate, inspire and act against climate change
- Completed the 20 hour **NPTEL** online certification course on **Project Planning and Control** with a score of 90%
- Completed the short term study course in **Sustainable Energy** and awarded Certificate of Excellence on successfully participating in **Rio+22 UN Sustainable Energy** for All India program organized by **IARC's Centre for United Nations**
- Completed the **Scilab** Training Course offered by Spoken Tutorial Project, **IIT Bombay**
- Completed a Special Audit Course titled **Introduction to Ocean Structures and Materials and Strength of Materials** offered by **Institute of Technology, Nirma University**

PARTICIPATIONS

- Participated in **Earthquake Shocker** – A Technical Quiz Competition organized by **ISR, Gandhinagar, Indian Society of Earthquake Sciences** and **ORCES, Nirma University, 2016**
- Participated in Poster Presentation Event on **Global Warming and Environmental Conservation** organized by **Indus Institute of Technology and Engineering, Ahmedabad, 2015**
- Participated in Painting Competition on **Moon Mission of India** organized by **ISRS and ORCES, Nirma University, 2015**
- Participated in **Civil Simplified National Level Bridge Design Challenge** in association with **Technex'14, IIT Varanasi** organized by **Civil Simplified, 2014**

PERSONAL DETAILS

Date of Birth: 6th July 1995

Marital Status: Unmarried

Sex: Male

Religion / Caste: Hindu/ Agrawal (Baniya)

Address: C-604 Prestige Towers, Near Judges Bungalows, Bodakdev, Ahmedabad

Hobbies: Playing badminton, chess, cricket and listening songs

DECLARATION

I hereby declare that all the information mentioned above is true to my knowledge and I bear responsibility for above mentioned particulars.

Thanking you,

Vardhan Garg

Place: Hyderabad

Date: 13/12/2019