Prabhav Rakesh Vakharia

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EDUCATION

Masters of Science in Civil Engineering **Sep 2022 - Present**

Oregon State University, Oregon, and United States of America **GPA 3.51/4.00**

"Eligible for Engineer in Training (EIT) Certification, with a goal of obtaining it within 6 months."

***Coursework**: Pavement Evaluation and Management, Pavement Structures, Contracts and specification, Lean construction.*

Bachelor of Technology (B. Tech), Civil Engineering **June 2018 - Jun 2022**

Dr. Vishwanath Karad MIT World Peace University, Pune, India **GPA: 3.71/ 4.0**

EXPERIENCE

Research Lab Assistant at Oregon State University **Apr 2023-Present**

Working under the guidance of Dr Erdem Coleri on the project Implementation of balanced mix design methods in Oregon to meet long-term performance goals. By enhancing the pliability of the asphalt mixes utilized in the construction of roads in Oregon, the longevity of newly laid pavement will be increased, leading to the achievement of project goals.

Oregon Department of Transportation, Springfield **June-Oct 2023**

Working as Construction Inspector Intern on the project of structures and paving I 105 Willamette River Pacific Highway section Eugene Springfield.

-Utilized Micro Station and Open Roads for roadway design projects.

-Demonstrated strong analytical and organizational skills to successfully complete multiple disciplines within projects.

National High- Speed Railway Corporation Limited, Surat Gujarat, India **Feb – Apr 2022**

JUNIOR ENGINEER

· Scrutinized pile foundation, pile cap, pier, and pier cap for 12 Bullet Stations from Maharashtra to Gujarat, India.
· Monitored and reported on soil test, Cross Hole Sonic Logging test, and Pile integrity test.
· Looked over the preparation of the well curb & well foundation.
· Setting up the casting yard and washing area for the site work.

Darpan Construction, Sawantwadi Maharashtra, India **JUL-SEP 2021**

JUNIOR ENGINEER

· Managed the construction of the foundation of the first 7 stories of a 13-story building.
· Tracked the development of each column and slab of every floor.
· Supervised the interior furnishing of the bedroom with attached bathrooms in all the apartments.

INTERNSHIP

Casa Rivera, Surat Gujarat, India **MAY -JUNE 2020**

Site Observer Intern

· Calculating and reinforcing the 24th floor of a luxury apartment.
· Preparation of penthouse and different ceiling height apartments.

SKILLS AND SOFTWARES

-Strong analytical, conceptual, organizational, and communication skills.
-Proficient in CADD/Design software, with expertise in Micro station, Open Roads, and Inroads.
-Geographic Information Systems (GIS): ArcGIS, Public Engagement and Outreach
-Project Management, Budget Monitoring, Multicultural Collaboration, Bicycle and Pedestrian Facility Design, Strong Presentation Skills

PROJECTS

· **Quantitative methods for design and analysis of construction operations**
Working on Discrete Event Simulation, Probability and Statics, Verification and Validation Methods, and Visualization using Microsoft Excel, jStrobe software, and Microsoft Visio.

· **Using Agro-based Material in the Production of Activation Carbon**
The major quantities of waste generated from agricultural sources are Sugarcane Bagasse, Rice Husk, Bamboo, Green Coconut, etc. The reuse of such wastes as a sustainable material appears to be a variable solution not only to pollution problems but also to the problem of landfilling.

· **Geometric Construction and Dimension System**
Projections of lines and planes involve Horizontal and Vertical planes. Projections of solid and sections of solids which involves projections of Cone, Triangular Pyramids, Cylinder, Tetrahedron, Hexagonal Pyramids, Pentagonal Prism & Pyramid, Orthographic Projections & Isometric View which involves 3D objects

PUBLICATIONS

· **"Marble Dust as a Binding Material in Concrete – A Review"**
Presented the review paper at International Conference on Sustainable Materials Conference for Built Environment (SMPBE-2021) and was published in Materials Today: Proceedings (Journal Elsevier).

· **"A review on surface assimilation of dyes in batch and column mode: Effects of in operation parameters"**
Presented the review paper at the International Conference on Advances in Water Treatment and Management – ICAWTM 22 (ongoing) and was published in journal of Scientific Research of Material.

PARTICIPATION & CERTIFICATION

· Certificate of Participation at International Conference on Sustainable Materials and Practices for Built Environment (SMPBE-2021) by Manipal University Jaipur, India.
· Certificate of Participation at 1st International Conference on "Advances in Water Treatment and Management" (ICAWTM-22) by Pandit Deendayal Energy University, Gandhi agar Gujarat, India.
· Certificate of Participation in Ideathon HACKMIT WPU 2022 at Dr.Vishwanath Karad MIT World Peace University, Pune, India.