MANASI SOLANKI

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Linkedin

Kalyan, Maharashtra

EDUCATION

Dr.D.Y.Patil Institute of Tech.
Pune, Maharashtra, India
B.E. (Civil) [8.98 CGPA] [3.6/4 GPA]
Honors: Metro Construction
2021 - 2024

Narayana College
High School
2018 - 2020

Don Bosco School
School
2018 (SSC)

SCHOLASTIC ACHIEVEMENTS

- Institute Topper in Freshman Year with a Perfect **10 GPA.**
- Among **top 10% students** to be eligible for branch change based on GPA in Semester 1.
- Pursued B.Tech **Honors** Program at DYPIET, offered to students with excellent academic record and involves completing 4 extra courses of total worth 12 credits

SKILLS

- Auto-cad (Basic)
- Proficient in Powerpoint, Word ,Canva, Sheets.
- Leadership
- Effective Communication
- Teamwork

PROFILE

A visionary civil engineer passionate about designing innovative, sustainable urban environments that seamlessly integrate functional efficiency with community well-being. Committed to transforming cities into interconnected, resilient ecosystems that promote long-term societal and ecological prosperity.

WORK EXPERIENCE

Civil Engineering Intern

Triveni group, Kalyan (Jan 2023 - Mar 2023)

- Collaborated with Senior management on new initiatives, building confidence.
- Completed assigned tasks and gained **hands-on** experience in site operations.
- Acquired knowledge about designing structures, planning layouts, and managing people.
- Reported daily to the instructor for task assignments and responsibilities.

Fundraising Intern

Muskurahat Foundation (Apr 2023 - May 2023)

- Successfully managed the fundraising campaign through a continuous improvement strategy
- Raised over **₹31,000** for underprivileged children in just **one month**
- Achieved the title of **Highest-performing Intern** at Muskurahat Foundation

PROJECTS

Wave Propagation Model of Chennai Port

- Developed a mathematical model that simulates wave behavior in different media, allowing for empirical observation and measurement of wave properties such as **speed, frequency, amplitude, and wavelength under controlled conditions.**
- The Mathematical model & Bathymetry of **Chennai port** was developed and simulated on the basis of two predominant wave directions based on the wind - 65° and 145° using **MIKE21 BW**
- Our mathematical model employs differential equations, particularly the wave equation, to analytically describe wave propagation

Earthquake Resistant Building (Tuned Mass Damper)

- Conducted thorough research and assessment of earthquake-resistant building methods.
- Developed a practical model of a Tuned Mass Damper to showcase its earthquake resilience.
- Bagged a 3rd prize for the Earthquake Resistant Building Project
- Submitted the project for a **Patent.**

PUBLICATIONS

2024 M.Solanki, J.Lollen, N.Bhoye and V.Patil, ***Study of wave propagation by comparing the mathematical and physical model of Chennai port,*** **IJISRT** (Link)

PATENTS

2022 M.Solanki, J.Lollen, N.Bhoye and V.Patil, ***Earthquake Resistant Building (TMD)***, (Link)
IPI App. No.: 202221048489 (Link)

LANGUAGES

- English (Fluent)
- Hindi (Native)
- Marathi (Native)
- Korean (Basic)

POSITIONS OF RESPONSIBILITY

Structural and Construction Operations

Solar Decathlon India (Mar 2022 - Feb 2023)

- Conducted Cost calculations for Material Estimation.
- Performed essential structural calculations for columns and footings.
- Provided valuable assistance in wastewater management.
- Demonstrated a proven ability to devise innovative solutions for intricate problems.

President

ASCE (American Society of Civil Engineers) (Mar 2023 - June 2024)

- Set performance objectives for the departmental club and devised strategies to achieve these milestones.
- Contributed as a dedicated member since 2021, holding various roles including Vice-President, editor and anchor.