

# MANASI SOLANKI

## CONTACT



+91 7738119515



manasiusolanki@gmail.com



[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

As a passionate urban enthusiast and civil engineer, I aim to combine my creative vision for cities with my technical expertise to design well-connected, sustainable urban environments that promote efficient living and long-term growth. My goal is to help build cities that are not only functional but also foster a strong sense of community and environmental responsibility.

## 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](#))

## 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.

LANGUAGES

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

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

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.