

THARUNSARATHY S

M.Tech. – Geotechnical Engineering

Gender: Male

Date of Birth: 24/06/2000

E-mail: tharunsachu@gmail.com

Contact: 7598933032



Educational Qualification

Year	Degree / Examination	Institution / Board	CGPA / Percentage
2024	M.Tech. Geotechnical Engineering	National Institute of Technology, Tiruchirappalli	9.68
2021	B. E. Civil Engineering	Coimbatore Institute of Technology, Anna University	7.94
2017	Class XII	SRV Boys Higher Secondary School, Rasipuram, State Board	88.75
2015	Class X	Zion Matriculation Higher Secondary School, Selaiyur, Chennai, State Board	95.20

Academic Achievements

- First rank holder in M.Tech. Geotechnical Engineering at National Institute of Technology Trichy.
- Presented the paper “**Influence of rise on edge disturbance in shallow funicular shells of square ground plan**” at an international conference organized by the School of Civil Engineering at Vellore Institute of Technology, Chennai.
- Presented the paper titled “**Risk assessment of concrete influenced by the nominal maximum size of coarse aggregate**” at an international conference organized by St. Peters Institute of Higher Education and Research, Chennai.

Internship Experience

- **Internship training at SMEC (India) Pvt. Ltd.:** *Jun 2023 - Jul 2023*
Underwent Internship training at SMEC (India) Pvt. Ltd. under the Geotechnical team in Chennai. The training included,
 - Preparation of Excel sheets for the design of the pile to resist vertical, lateral, and uplift forces.
 - Preparation of Excel sheets to design shallow foundations and calculate the total settlement.
 - Reviewing geotechnical reports and preparation of Geotechnical Interpretation Reports of live projects.
 - The training helped in understanding the implementation of theoretical concepts in live projects and understanding and analyzing the problems encountered.
- **Virtual Internship program conducted by Builders Association of India (Coimbatore Centre):** *Aug 2020 - Sep 2020*
 - The training involved a series of webinars conducted by professionals and professors on various topics.
 - The various construction techniques and the problems encountered in the field were discussed.

- **Internship training at Jayam Consultants:** Nov 2019
 - The training involved **drafting and design of industrial and residential buildings.**
 - The training involved understanding practical problems encountered during the design of a structure.
- **Internship training at Jayam Consultants:** Mar 2019
 - The training involved drafting **engineering drawings** for industrial and residential buildings.
 - The training involved understanding of work involved in a project and the duties of a draftsman.

Projects

- **M.Tech. - Estimation of viscosity of fine-grained soil slurries** Aug 2023 - Jun 2024
 - This project involves the determination of the viscosity of various fine-grained soils using a Brookfield viscometer.
 - It involves the parametric study of soil for its rheological characteristics.
 - The influence of strain rate, water content, and soil properties in the viscosity of slurry is studied.
- **B.Tech. - Planning, analysis, design, and estimation of Boys' hostel** Mar 2020 - Jun 2021
 - In this project, planning, analysis, design, and estimation of the Boys' hostel (**G+3 Framed Structure**) were done.
 - The project was done based on an existing project.
 - Various IS codes for calculating loads, load combinations, design of RCC structure, and detailing of rebars were used.
 - The analysis and design were done manually and by computer software (**STAAD.Pro**) and checked for deviations in results.
- **B.Tech. - Planning, analysis, design, and estimation of Residential building** Mar 2019 - Jun 2020
 - In this project, planning, analysis, design, and estimation of a Residential building (**Load bearing structure**) were done.
 - The analysis and design were done manually using the design principles and were checked with relevant IS code books.
 - The concept of load transfer in a structure and the nomograms for the thickness of masonry walls were used.

Areas of Interest

- Geomechanics
- Soil reinforcement and Geosynthetics
- Soil dynamics

Technical Skills and Certifications

- Engineering Software : AutoCAD, STAAD.Pro, PLAXIS 3D, COMSOL
- Other Software : Microsoft Word, PowerPoint, Excel
- Certifications : **Chartered Engineer (India)**,
Rock Mechanics and Tunnelling (NPTEL),
Completed Everyday English Intensive Module 1 of the Intermediate level delivered by the British Council, India,
Budgeting and Scheduling Projects (Coursera offered by the University of California/ Online),
Workshop on STAAD Pro (Nalla Malla Reddy Engineering College).

Extracurricular Activities

Sports Activities:

- Placed **second place** in the District Table Tennis tournament (2014)
- Placed **first place** in the Zonal Table Tennis tournament (2012, 2013, and 2014)
- Completed marathon running organized by Y-men's Club and CIT (2018)
- Completed marathon running organized by MGR Marathon (2018)