

# Shriram Varadarajan

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## PROFESSIONAL SUMMARY

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Structural Engineering graduate with 2+ years of experience in construction site supervision and reinforced concrete works. Skilled in structural analysis, load combinations, serviceability and ultimate limit state design in accordance with Australian Standards (AS3600, AS4100, AS5100). Proven ability to coordinate multidisciplinary teams, ensure WHS compliance, and deliver projects on schedule.

## KEY COMPETENCIES

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**Technical:** Structural Analysis and Design (Steel and Reinforced Concrete), Load Combinations, Structural Drawings Review, Construction Planning and Execution, Construction Materials and Methods, NCC Compliance.

**Standards:** AS5100, AS3600, AS4100, AS1720.1, AUSTRROADS, AASHTO.

**Software:** AutoCAD, STAAD Pro, Microstran, SAP2000, PLAXIS 2D, ANSYS, RIB CostX (Estimating and Quantity Takeoff).

**Project Management:** Project Scheduling, Quality Control and Assurance, Site Safety Management, Resource Allocation, Stakeholder Communication.

## PROFESSIONAL EXPERIENCE

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**Construction Site Engineer**, Chennai Civil Construction, India Feb 2023 – Nov 2023

- Supervised residential building projects valued at approximately \$1.5M, ensuring compliance with structural drawings, specifications, and safety standards.
- Coordinated 20+ labourers and subcontractors to maintain workflow and reduce schedule delays.
- Monitored reinforcement placement, formwork, and concrete works, contributing to zero major quality non-conformances.
- Prepared weekly progress reports and documented construction milestones for senior management.
- Assisted in optimising labour and material allocation to improve site efficiency.

**Junior Site Engineer**, Om Sairam & Co., India Feb 2021 – Jan 2023

- Executed setting out and levelling activities for multi-storey residential projects.
- Interpreted structural and civil drawings to support reinforcement detailing and formwork installation.
- Assisted in concrete pouring operations for foundations, slabs, beams, and columns.
- Enforced PPE compliance and safe work practices, supporting improved site safety performance.
- Maintained daily site records and supported quality inspections.

## EDUCATION

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**Master of Engineering (Extension)** Feb 2024 – Dec 2025

University of Technology Sydney Major: Structural Engineering

- Relevant Coursework: Concrete Technology & Practices, Steel & Composite Design, Bridge Design, Application of Timber in Engineering Structure, Catchment Modelling, Finite Element Analysis, Advanced Soil Mechanics & Foundation Design, Road Engineering Practice.
- Australian Standards: AS5100 Bridge Design, AS3600 Reinforced Concrete Design, AS4100 Steel Design, AS1720.1 Timber Design, AUSTRROADS, AASHTO.
- Thesis: “Carbon Value Engineering: A Framework for Integrating Embodied CO<sub>2</sub> & Cost Reduction Strategies in Building Design”.

**Bachelor of Technology & Master of Technology (Integrated)** June 2016 – Jan 2022

SASTRA Deemed to be University, Tanjore, India

(B.Tech Civil Engineering — M.Tech Construction Engineering & Project Management)

- Relevant Coursework: Geotechnical Engineering, Highway & Railway Engineering, Earthquake-Resistant Structures, Construction Management, Steel & Concrete Structures, Advanced Construction Techniques, Mechanization in Construction, Surveying, Green Technology for Buildings.
- Thesis: Effect of Rice Husk Ash on the Behaviour of Highly Compressible Clay (Presented at Indian Geotechnical Conference 2019 - GeoINDUS, Surat; Published in Springer Journal).
- Thesis: Mechanical and durability properties of concrete with partial replacement of fine aggregate by sugarcane bagasse ash (Research work at SASTRA Deemed University, Tanjore; Published in ScienceDirect Journal).

## ADDITIONAL INFORMATION

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**Languages:** English (Proficient), Tamil (Native), Hindi (Beginner)

**Certifications:** STAAD Pro, AutoCAD, Revit

**Publications:**

- Effect of Rice Husk Ash on the Behaviour of Highly Compressible Clay — <https://rdcu.be/e2U5a>.
- Mechanical and durability properties of concrete with partial replacement of fine aggregate by sugarcane bagasse ash (SCBA) — <https://doi.org/10.1016/j.matpr.2020.12.172>.

**Work Rights:** Full working rights in Australia (Temporary Graduate Visa – Subclass 485)