

SARAMGI S

STRUCTURAL ENGINEER

Passport: AD278168 (Expiry: 17/06/2035)

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PROFILE SUMMARY

- Structural Engineer with expertise in BIM modeling, CAD drafting, and structural design.
- Proficient in Revit, AutoCAD, ETABS, STAAD.Pro, and Navisworks.
- Experience as BIM Engineer/Trainer, with key projects like NEOM Health center and MeDoRe Residential Tower.
- Master's in Structural Engineering (CGPA 9.36), with strong analytical and problem-solving abilities.
- Certified in Building Design and Computer Applications, with a focus on efficient project delivery and teamwork.

SKILLS

Technical Skills:

- AutoCAD
- Revit
- ETABS
- STAAD.Pro
- Navisworks
- MS Office (Word, Excel, PowerPoint, Project)
- Architectural and Structural BIM Modeling
- Architectural and Structural Design
- Architectural and Structural Drafting

Soft Skills:

- Problem Solving
- Self-Learning
- Adaptability
- Teamwork and Collaboration
- Time Management

EXPERIENCE

BIM Engineer

CADBIM Centre, Thiruvananthapuram

(May 2024 – March 2025)

- BIM Engineer at the training division of CommandTech CAD&IT PVT LTD.
- Conduct training sessions on BIM software such as Revit, AutoCAD, ETABS, STAAD, 3ds Max, and basic Dynamo, enhancing participants' skills in structural design and analysis.
- Develop educational materials and guides to improve learning outcomes and project results.
- NEOM Advanced Health center** – BIM modeling and coordination as per LOD 500 specifications.
- Provide guidance in BIM modeling for projects including **MeDoRe Residential Tower** and **Doha Metro**.

Assistant Design Engineer

Mikan Engineering and Construction, Nagercoil

(February 2024 – May 2024)

- Contributed to the SOAR project, focusing on structural design and drafting.
- Played a key role in the refurbishment of Tank TK-203, ensuring compliance with safety standards and project deadlines.

CADD Engineer

CADD Centre Marthandam

(June 2022 – February 2024)

- Delivered training on AutoCAD, Revit, ETABS, STAAD, and 3ds Max to students and professionals, improving their technical skills.
- Developed instructional materials that enhanced the quality of course delivery and comprehension.

EDUCATION

M.E. Structural Engineering (CGPA: 9.36)

St. Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil – 2022

B.E. Civil Engineering (CGPA: 7.64)

Mar Ephraem College of Engineering and Technology, Elavuvilai, Nagercoil – 2020

CERTIFICATIONS

- **Master Diploma in Building Design** (AutoCAD, Revit, ETABS, MSP, PPM)
- **Diploma in Computer Applications** (MS Word, Excel, PowerPoint, Basic Programming in C)

PROJECTS

- **NEOM Advanced Health center**
BIM modeling and coordination as per LOD 500 specifications.
- **MeDoRe Residential Tower**
Contributed to BIM modeling following LOD400 and LOD500 specifications in structural and architectural modeling.
- **Jerudong Park Food Court Renovation Proposal**
Provided guidance in structural design using STAAD.Pro for renovation planning.
- **SOAR Project**
Created drafting views for the location of appurtenances in treated waste oil tanks.
- **Refurbishment of Tank TK-203**
Developed detailed views of bottom patch plates and connection details.
- **Experimental Investigation on Durability Properties of Steel Slag Aggregate Concrete**
Investigated the effect of corrosion inhibitors on the durability of steel slag aggregate concrete.

INTERNSHIPS

- **Public Works Department, Government of Tamil Nadu**
Gained practical knowledge in the execution of construction work on culverts. Learned site preparation, formwork assembly, placing reinforcement, and concreting.
- **Public Works Department, Government of Kerala**
Acquired hands-on experience in the execution of road and school building construction projects. Learned site preparation, formwork assembly, placing reinforcement, and concreting.
- **Mason Tech**
Gained practical knowledge in the execution of apartment building construction, focusing on concrete preparation, testing, formwork assembly, reinforcement placement, and curing methods.

CONFERENCES & PUBLICATIONS

- **“An Experimental Investigation on Effect of Corrosion Inhibitor on Durability Properties of Steel Slag Aggregate Concrete”**
Published in the *Proceedings of the 6th International Conference on Emerging Trends in Engineering Management and Application (ICETEMA 2022)*.
- **Paper Presentation**
Presented research titled *"An Experimental Investigation on Effect of Corrosion Inhibitor on Durability Properties of Steel Slag Aggregate Concrete"* at the *First International Conference on Emerging Research Trends in Civil Engineering (ERTCE-2k22)*.