

SIMI RACHEL THOMAS

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Career Profile

Hard-working and passionate B.Tech (Honours) graduate with a strong background in construction software design and academic research. Completed 2+ months of government and consultancy internship experience. Able to work independently and as part of a multi-disciplinary team. Seeking to leverage the proven skills to help the organization to provide excellent design solutions.

Education

Bachelor of Technology (Honours) – Civil Engineering **July 2018 - June 2022**
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY, Kerala, India
• GPA: 8.9/10

Class 12th, CBSE **2017 - 2018**
GEMS Our Own Indian School, Dubai, UAE
• Aggregate: 81.88%

Work Experience

NATIONAL PUMPS INDUSTRY Co. L.L.C. – DUBAI, UAE **December 2022 – Present**
Merchandiser and Sales Coordinator
• Created and delivered presentations on different pumps and their related equipment such as header pipe, lay flat hose, swinger hose, etc. at various exhibitions.
• Coordinated the availability of daily sales services and established weekly reports about sales performance.

Internship Experience

COCHIN SHIPYARD LIMITED – Cochin, India **May 2023 – June 2023**
Civil Engineering Intern
• The structural design for an office in Cochin Shipyard was developed using the architectural plan.
• The software used for modelling and detailing is ETABS, STAAD Pro, SAFE, and AUTOCAD.
• The project management schedule for the office building at Cochin Shipyard was prepared in Primavera P6.
• Crane foundation design and diving pool structural design were studied during the course.
• The New Dry Dock construction at CSL carried out by L&T Construction was visited and studied.

CILL ASSOCIATES – Cochin, India **April 2022**
Surveyor Intern
• Participated in Advanced Surveying Techniques in Total Station internship conducted by Federal Institute of Science and Technology (FISAT) in association with Cill Associates.

FAIZAL ASSOCIATES, STRUCTURAL CONSULTANTS – Calicut, India **March 2022**
Engineering Intern
• Assisted Site Engineer at Calicut, Kerala while learning the overall commercial building construction.
• Participated in site visits to review accuracy and any necessary changes.
• Obtained a working knowledge of the company's master decision making, agreements and scope of work.

Additional Course Certifications

Rock Mechanics and Tunnelling (3 credits) **July 2023 – October 2023**
INDIAN INSTITUTE OF TECHNOLOGY, Technology Enhanced Learning, Kharagpur, India

Safety in Construction (3 credits) **January 2023 - March 2023**
INDIAN INSTITUTE OF TECHNOLOGY, Technology Enhanced Learning, Madras, India

Modern Construction Materials (3 credits) **January 2022 - April 2022**
INDIAN INSTITUTE OF TECHNOLOGY, Technology Enhanced Learning, Madras, India

Integrated Waste Management for a Smart City (3 credits) **July 2022 - October 2022**
INDIAN INSTITUTE OF TECHNOLOGY, Technology Enhanced Learning, Kharagpur, India

Geospatial Technology for Hydrological Modelling (2 credits)

INDIAN INSTITUTE OF REMOTE SENSING, ISRO, Govt. of India

August 2021**Geospatial Modelling for Watershed Management (2 credits)**

INDIAN INSTITUTE OF REMOTE SENSING, ISRO, Govt. of India

July 2021

Projects**Undergraduate Project – Cochin, India****July 2021 – June 2022****Federal Institute of Science and Technology, Kerala, India**

- Project investigated the Flood Mapping and Flood Prediction of Thiruvalla taluk, Pathanamthitta, Kerala, by Analytical Hierarchy Process (AHP) using ArcGIS, in the Environmental Engineering domain.
- Flood mapping was developed using European Space Agency SNAP software and Google Earth Pro, followed by flood prediction model pioneered using GIS software.
- The validation of the generated results was done using the Flood inundation maps from Kerala State District Management Authority (KSDMA).

Publications**Flood Prediction using Analytical Hierarchy Process of Thiruvalla taluk, Pathanamthitta, Kerala, India**

- Proceedings of the International Conference on Systems, Energy, and Environment 2022 (ICSEE 2022).
URL: <http://ssrn.com/abstract=4296289>.

Skills

- **Computer Aided Design Software:** AUTOCAD, STAAD Pro, ETABS, SAFE, ANSYS, Revit Architecture, Tekla
- **Construction Management Software:** Primavera P6, SureTrak, Microsoft Project
- **GIS Software:** ArcGIS, QGIS
- **Programming Languages:** C++, Python
- **MS Office:** Word, Excel, PowerPoint, Project
- **Academic:** LATEX, Origin Pro
- **Soft Skills:** Designing skills and knowledge; critical problem-solving; thinking, analytical and reasoning skills; good communication skills; time management skills; a good team-worker
- **Languages:** English (Native / Bilingual Proficiency), Arabic (Elementary Proficiency), Hindi (Elementary Proficiency), Malayalam (Native Proficiency)
- **Laboratory/External:** Laboratory Concrete Testing, Surveying, Total Station
- **Extra-curricular:** Sports (Athletics, Badminton, Cycling), Singing, Keyboard player

Professional Memberships

- **American Society of Civil Engineers (ASCE)**
- **Indian Concrete Institute (ICI)**

Leadership and Activities

- Eventhead for Consilio (Idea Pitching competition) as part of Incepto'22 (Inter-college civil department Tech-fest) at FISAT, India
- Elected as School Prefect during 11th & 12th grade, GOOIS, Dubai
- An active member of American Society of Civil Engineers (ASCE) and Indian Concrete Institute (ICI) organizations.

Referees

- Dr. Unni Kartha G (Professor, Dean - Academics)
- Phone: +91 9846387772
- e-mail: unnikartha@fisat.ac.in
- Mr. Saji T. John (Sales and Marketing Manager)
- Phone: +971 50 7942056
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