

LASWIN JACOB

Sr. Design Engineer

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Summary

I am a civil engineer with post graduate degree in Rock Mechanics. Being flexible and dynamic team player, I am accustomed to round the clock work dedication and is looking for an environment which provides sustainable and efficient solutions. I hope to foster my knowledge to provide sustainable engineering solutions while aligning my goals with that of the organization and nurturing managerial skill.

Work Experience

❖ **Senior Design Engineer, Civil (July 2017-August 2019)**
Larsen & Toubro, Water Effluent And Treatment IC, Chennai HQ, India

The list of few associated projects with relevant experience gained is as follows:

1. Implementation of Surya Regional Bulk Water Supply Scheme for Western Sub Region of Mumbai Metropolitan Region (MMR) on Design, Build, Maintain, Operate and Transfer (DBMOT) basis:

- *Client:* Mumbai Metropolitan Region Development Authority (MMRDA)
- *Work Experience:*
 - i. Preparation of preliminary Geotechnical Investigation Scheme for hard-rock tunnel.
 - ii. Site grading plan and quantity estimation for Intake Well.
 - iii. Inlet Shaft stability check using Phase2.
 - iv. Detailed validation and rectification of geotechnical investigation report.

2. Improvement Of Water Supply Scheme To Greater Berhampur For WTP At Berhampur:

- *Client:* RWSS Odisha
- *Work Experience:*
 - i. Pile design for Elevated Storage Reservoir (ESRs).
 - ii. Design of temporary timber shoring system for Shallow foundation (upto 2.5m).

3. *Various packages of Multi-Village Rural Water Supply Schemes in Madhya Pradesh:*

- *Client:* Madhya Pradesh Jal Nigam
- *Work Experience:*
 - i. Geotechnical Investigation Scheme recommendation for tendering purpose.
 - ii. Foundation recommendations for various structures in the water supply scheme.
 - iii. Ground improvement recommendations.
 - iv. Excavation quantity estimation and excavation profile recommendation for off-shore Intake Wells and approach channels.
 - v. Cofferdam design for intake well excavation.
 - vi. Intake well construction methodology suggestions.
 - vii. Use of BIM models for easier updates/rectifications.
 - viii. WTP approach road (flexible pavement) and embankment design.
 - ix. Raw water reservoir excavation quantity estimation.
 - x. Slope stability analysis using PLAXIS 2D.
 - xi. Used Data Base Management Systems to track project progress and resource allocation.

4. *Miscellaneous:*

- *Work Experience:*
 - i. Design of In-plant Rigid Pavement Roads.
 - ii. Feasibility study of integrated secant pile Intake Well system.
 - iii. Quantity estimation validation using Civil 3D.

Education Qualifications

❖ **M.Tech Excavation Engineering (Rock Mechanics)**

- *Institute:* Visvesvaraya National Institute of Technology, India
- *CGPA* – 9.04 (out of 10).

❖ **B.Tech Civil Engineering**

- *Institute:* Marian Engineering College, University of Kerala, India
- *CGPA* – 7.15 (out of 10).

Research Works

- ❖ Analysis of Tunnel Support Stability Using Phase 2D. (M.tech)
- ❖ An Experimental Study Of Concrete By Partial Replacement Of Fine Aggregates With Copper Slag. (B.Tech)

Key Skills

- ❖ Excellent communication skills
- ❖ Active listener
- ❖ Team player
- ❖ Confident
- ❖ Quick learner.
- ❖ Professional approach to challenging situations.
- ❖ Design and Analysis.

Technical skills

- ❖ RS²
- ❖ Plaxis 2D
- ❖ Staad Pro
- ❖ InfraWorks
- ❖ Revit
- ❖ AutoCAD

General Software Skills

- ❖ Microsoft Word
- ❖ Microsoft Excel
- ❖ Microsoft PowerPoint
- ❖ Basic C++

Internships

❖ L&T-Ramboll, India

Duration: 4 days

Project on: Pre-Feasibility Study on Developing Multi-Modal Transport Hubs at Thiruvananthapuram.

Project Work

- Conducted feedback survey regarding existing transport facilities.
- Recorded and arranged the results of the study.
- Data collected from almost 200 people.

Milestones

- ❖ Developed Dynamo program for linking design excel sheet with Revit for a parametric model of Elevated Storage Reservoir.
- ❖ Participated in Basic BIM training.
- ❖ Undergone Excel VB training.
- ❖ Attended Revit Architecture and Scheduling basic crash course.
- ❖ Attended COBie awareness lecture.
- ❖ Certified Advanced Excel User.

Personal Details

- ❖ **Gender:** Male
- ❖ **Date of birth:** 4th January, 1992
- ❖ **Languages known:**
 - English (Fluent)
 - Hindi (Intermediate)
 - Malayalam (Native)
 - Tamil (Beginner)
- ❖ **Nationality:** Indian

Professional References

1. Kondapalli Bairagi

Chief Engineering Manager (Geotechnical)

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2. Suriyanarayan NS

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