

# RAJDEEP PAUL

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Assam Engineering College

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## EXPERIENCE

### Public Works Department, Guwahati – Intern

DECEMBER 2015 - JANUARY 2016

One-month vocational training on site work, in-situ material testing, few non-destructive testings.

### Central Public Works Department, Guwahati – Intern

MAY 2016 - JULY 2016

Two months vocational training on shallow isolated footing design and construction method.

### Public Works Department, Coochbehar – Intern

MAY 2019 - JULY 2019

Two months vocational training on vertical pile load test, lateral pile load test and pile integrity test.

### L&T – Water & Effluent Treatment, Chennai – Senior Design Engineer

AUG 2020 - APR 2023

Designing of foundations, retaining walls, pile tests, pavement, excavations and other aspects of engineering related to earthwork and soil.

### Indian Railways, Guwahati – Junior Engineer

MAY 2023 - OCT 2023

Procurement, handling and distribution of materials to various consignees in Railways.

### Water Resources Department, Hatsingimari – Assistant Engineer

OCT 2023 - FEB 2025

Works related to river training, anti-erosion and protection against flood.

## PROJECTS

### Soil Investigation for 43 Locations in Guwahati City– Project submitted for Partial Completion of B.Tech

Safe bearing capacity was calculated for shallow footing and pile foundations of different depths spread across the city of Guwahati using borehole data present for those locations.

### Design of (G+3) R.C.C. Residential Building– Project submitted for Completion of B.Tech

Different building elements of a (G+3) residential building having lift were designed according to appropriate IS codes and presented as drawings.

### Life Cycle Assessment of Mining and Industrial Wastes-Based Geomaterials – Dissertaion submitted for Completion of M.Tech

The study examined the different impact assessment of items manufactured using various geomaterials and controlled low strength materials which are made of industrial wastes.

## PUBLICATIONS

### Engineering Properties of Cementless Alkali Activated CLSM Using Ferrochrome Slag

DECEMBER 2022 - Journal of Materials in Civil Engineering - 35(3)

DOI: [10.1061/\(ASCE\)MT.1943-5533.0004620](https://doi.org/10.1061/(ASCE)MT.1943-5533.0004620)

In this manuscript physical properties and mechanical properties were assessed for different CLSM mix designs utilizing industrial wates and compared with cement-based FS-CLSM. Life cycle analysis was carried out to investigate the effects of the FS-based CLSM on the ecosystem and human health.

## EDUCATION

### Indian Institute of Technology (ISM), Dhanbad – M.Tech, Geotechnical Engineering

JULY 2018 - MAY 2020 CGPA – 8.92

### Assam Engineering College, Guwahati– B.E, Civil Engineering

JULY 2013 -JUNE 2017 PERCENTAGE – 85.8 (HONS.)

### Kendriya Vidyalaya , Khanapara, Guwahati

12th -APRIL 2012 - MAY 2013 - 87.67%

10th -MAY 2010 - MAY 2011 - 95%

## SKILLS

- **Strong** : AutoCAD 2D, Microsoft Office, OpenLCA, Plaxis
- **Intermediate** : SimaPro
- **Beginner** : Geo5, MATLAB, Staad.Pro

## ACHIEVEMENTS

- Graduated with **First Class Honours (3<sup>rd</sup> in University)** in Bachelor of Engineering in Civil Engineering.
- Qualified in **GATE 2018** with an All India Rank of **1701** and GATE Score **710**.