Swarnalee Mazumder

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EXPERIENCE

RESEARCH INTERN | NIT Silchar
Summer 2020 (Ongoing)
- **Advisor: Prof. A.K. Dey** - Complete seismic analysis of a G+8 building for understanding the behaviour of earthquakes.
- Seismic response of pile and shallow foundations in clay and sand.

INTERNSHIP | IOCL Bongaigaon Refinery
Summer 2020
- Made aware of the various works that take place in a refinery wherein also learned about the important aspect of fire safety.
- The broad topics include: Bitumen basics and road repair; Industrial painting; Tank M & I and role of civil maintenance in refinery; SOR and its uses; RCC pavement design; tendering process.

ENGINEERING DESIGN INTERN | Vardhan Consulting Engineers
Spring 2020
- Green Buildings-Calculations and ratings.
- Prepared an extensive analysis report of the various green building rating systems in India for the completion of the internship.

SUMMER TRAINEE | Assam Public Works Department
Summer 2019
- Got to know the construction aspects of roadworks, preparation of D.P.R and quality assurance.

PROJECTS

SMART EARLY WARNING SYSTEM FOR LANDSLIDE DETECTION BASED ON IOT | UG Research Council
Feb 2020 – Present | NIT Silchar
- **Advisors: Dr. Amit Kr. Das, Dr. Prasanta Roy**
- Instrumentation in Geotechnical Engineering. This project is based on interdisciplinary research work and coordinated interlinking of data that could be a strong base for slope failure early warning systems by use of IoT.

POSITIONS OF RESPONSIBILITY

DESIGN HEAD | School Genius - Tecnoesis
DESIGN HEAD | Razzmatazz - Incandescence

SOCIETIES

Gyansagar - Social Wing of NIT Silchar
Indian Geotechnical Society Silchar Student Chapter

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
BTech in Civil Engineering
2017-2021
GPA: 7.63/10 (Until Sem 6)

MAHARISHI VIDYA MANDIR SILCHAR
All India Senior School Certificate Examination
2017
Percentage: 88.8%

MAHARISHI VIDYA MANDIR SILCHAR
All India Secondary School Examination
2015
CGPA: 10/10

SKILLS

PROGRAMMING
Python • C/C++ • TₑX • MATLAB

SOFTWARES
AutoCAD • ArchiCAD
Primavera P6 • BIM • StaadPro
CPM • Git/Github
Adobe Photoshop • Microsoft Office

RELEVANT COURSES

UNDERGRADUATE
Geotechnical Engineering
Foundation Engineering
Transportation Engineering
Structural Analysis I, II, III
Mathematics I, II, III

INTERESTS

- Cutting-edge research work in Civil Engineering
- Data Analytics and use of ML in Construction Industry
- Human Psychology
- Music & Art