

# Abishek A.

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## EDUCATION

Program	Institution	%/CGPA	Year of completion
Master of Science in Structural Engineering	Indian Institute of Technology Madras	8.40/10	2019
Bachelor of Engineering in Civil Engineering	College of Engineering Guindy	8.02/10	2011
XII	St. John's Mat. Hr. Sec. School	92.75/100	2007
X	St. John's Mat. Hr. Sec. School	89.82/100	2005

## SKILLS

- Languages: C, C++ & Python.
- Software: ABAQUS, AutoCAD, ETABS, MATLAB, MS Office, SAP2000 & STAAD Pro.

## PROJECTS

- Reliability studies of Railway bridge pier considering ultimate limit-state (**M.S Research**)
  - Safety of existing railway bridge piers subjected to uncertainties was studied using reliability methods.
  - Uncertainty in concrete strength was modelled using ready-mix plant data.
  - Research involved development of MATLAB code for determining the reliability indices using HDMR based response surfaces of performance functions.
  - Parametric study was carried out which enables the design engineer to understand critical parameter that causes maximum distress in the structure.
- Lime Stabilization of Expansive Clay (**B.E Project**)
  - Properties of the lime stabilized expansive clay in Chennai was studied.
  - Filter paper technique was adopted to study the properties of stabilized clay.

## PROFESSIONAL EXPERIENCE

**Project Officer** at Indian Institute of technology Madras Mar 2019 – Current (23 Months)

Structural proof checking:

- Analysis and review of design of proposed structures comprising bridges, RC buildings and steel structures.

Notable projects:

- Kottayam Medical College by HITES HLL Infra.
- SRM University, Amaravathi by BURO Engineers.
- ROB by Vasuprada Consultants LLP, Cherian Varkey Construction Company Pvt. Ltd, Ruky Projects Private Limited and Naksha Infra Structural Consultants.
- Communication towers by Bharat Electronics Ltd.

**Project Associate** at Indian Institute of technology Madras Aug 2014 – Dec 2014 (6 Months)

Material testing:

- Testing of prestressing strands, prestressing jacks and bearings (Elastomeric and Pot bearings) of proposed bridges for conformity with standards and specifications.

Structural proof checking:

- Analysis and review of design of proposed railway bridges designed by IRCON.

**Assistant Manager** at ACC Concrete Ltd.

Sep 2011 – Aug 2013 (24 Months)

- Quality control of raw materials for concrete.
- Optimization of concrete mixes.
- Development of various concrete solutions like Light weight concrete, Rapid setting concrete, Coloured concrete, Super Coat based on the industrial needs at R&D laboratory.
- Demonstration on Speedcrete (developed concrete that sets within 24 hrs to give a strength of 40 MPa without even curing; mainly used for road works) for Thane Municipal Corporation is a notable landmark during my association with the organization.
- Development of Ecosand; a special type of fine aggregate.

**Intern** at Rajparis Civil Constructions

Jun 2010 (1 Month)

- Construction and maintenance of Residential building.

**Intern** at Chennai port Trust

Jun 2009 (1 Month)

- Construction of onshore structures at Chennai harbor.
- Construction of Tetrapods and mechanism of breakwater.
- Dredging and related issues.

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## POSITIONS OF RESPONSIBILITY

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- Event coordinator, "*Civilisation 2010*" (a national level technical symposium).
- Poster and Souvenir designer, "*Civilisation 2010*".
- Conducted induction seminars for newly appointed trainees at ACC Concrete Ltd.
- Organizer, "*One day workshop on ETABS workshop*" at IIT Madras.
- Organizer, "*ICI Workshop on Structural Design of Building Systems*" at IIT Madras.

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## AWARDS

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- **Prerna Gaurav** award at ACC Concrete Ltd. appreciating the performance.
- Certificate of Participation at "*Structural Engineering Convention (SEC) 2016*".
- Second place for Industrial Design problem solving at "*Megalith 2010*" for the design of multi-storey building.
- Second place for the paper presentation at "*Hinges 2009*" on Intelligent Transport System.

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## CO-CURRICULAR ACTIVITIES

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NCC Army **Certificate 'B'** and **Certificate 'C'** holder, issued by Ministry of Defence, Government of India.

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## PUBLICATIONS

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**Abishek A., Nageswara Rao B.** (2019) Reliability Study of Railway Bridge Circular Pier Using Monte Carlo Simulation. In: Rao A., Ramanjaneyulu K. (eds) *Recent Advances in Structural Engineering, Volume 2. Lecture Notes in Civil Engineering*, vol 12. Springer, Singapore

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## CAREER OBJECTIVES

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Hard-working and dedicated structural engineer, looking for challenging opportunities to establish analytical and management skills.

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## DECLARATION

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I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.