



## EDUCATION

Program	Institution	%/CGPA	Year of Completion
PhD in Civil Engineering	Texas A&M University	N/A	2021- Present
B. Tech in Civil Engineering	Indian Institute of Technology Tirupati	7.18/10	2015-2019

## WORK EXPERIENCE

### **Design Engineer – Advanced Construction Technologies Ltd. (July 2019- July 2021)**

- Specialized in design of Helical Screw Piles and retaining structures made from concrete blocks
- Specialized in leading a team to deliver jointless concrete floors as per “TR 34: Concrete Industrial Ground Floor” for heavy industries, warehouses and logistics.

### **Foundation design Engineer Intern– AECOM, Chennai, India (May - July 2018)**

Involved in different projects of AECOM Chennai under geotechnical department. My work focused on foundation designs with prime focus on design of deep foundations using various Indian standard code of practice, during my internship I

- Prepared GIR (Geotechnical Investigation Report)
- Prepared Geotechnical recommendations for client according to their loadings and usage requirements.
- Designed concrete piles for deep foundations.

*Guide: Dr. Kumar Pitchumani Guide, Regional Director - Geotechnical, Transportation, Chennai, India*

## SKILLS

- Dry Lab: AutoCAD, Revit, QGIS, Geo Slope
- Wet Lab: Transportation Engineering, Hydraulics, Construction materials lab, Geotechnical Engineering and Environmental Engineering

## PROJECTS

### **Compatibility Study of Municipal Solid waste Incineration Ash in Earthworks (Sep 2018-May 2019)**

- Studied compatibility of MSWI bottom ash in earthworks in India.
- Samples obtained from the incineration plant were studied for its chemical composition, engineering properties, leaching properties and we did spectroscopic and microstructure analysis then based on the pollutants concentration and other parameters its compatibility in earthworks is studied

### **Vidata: (Jan-Apr 2018)**

- The crux of the idea is to inculcate and bring modern technology like the Internet of Things (IoT) into the agricultural sector to make it profitable once again.
- Data can be collected from local farmers on the investment and productivity details using this application which can help government to set Minimum Support Price (MSP) for the particular regions.
- Developed better methods to help the farmers in getting benefited if they ran into losses due to floods or drought or excessive rainfall etc.

### **Runway Expansion and Terminal Design for Airbus A380: (Nov 2017)**

- Modified the current runway design to accommodate A380 in Tirupati airport
- Designed terminal to accommodate A380 for Tirupati airport.

### **Water Budget for Mahi Watershed: (Sep-Nov 2017)**

- Analyzed and quantified some significant components of hydrological cycle for Mahi watershed.

### **Designing Open Channel for IITT Permanent Campus: (July-2017)**

- Evaluated runoff and designed open channels for IIT Tirupati permanent campus.
- Recommended a water storage (pond) location and quantified the use of stored water for campus activities.

## **RELEVANT SPECIALIZATION**

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### **Key Courses taken**

Geology and Soil Mechanics, Geotechnical Engineering, Designing with Geosynthetics, Numerical Methods in Geotechnical Engineering, Concrete Technology, Pavement analysis and design, Water Resource Engineering, Basic Structural Steel Design, Advanced Structural Analysis, Financial Management, Principles of Economics.

## **ACHIEVEMENTS AND LEADERSHIP**

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- Students' General Secretary IIT Tirupati (2018 - 2019)
- Finance head Tirutsava (Techno-Cultural fest)2k19 (Aug 2018 – May 2019)
- NSS Coordinator (Rural Projects and Development) (2016 - 2019)
- Internship Coordinator for Undergraduate Civil Engineering (2017-18)
- Conveyor - Tirutsava (Techno-Cultural Fest) (Apr 2017)
- Event Management head - Anfang (Tech fest) (Mar 2016)
- Cultural Affairs Secretary IIT Tirupati (2016-17)
- Class Representative (2015-16)
- Quarter finalist in DST & Texas Instruments India Innovation Challenge Design Contest 2017, Anchored by IIM, Bangalore.