

VENKATA SAI SHRAVAN MUDADLA, (EIT)

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EDUCATION

Program	Institution	Year of completion
M.S. in Structural Engineering	Georgia Institute of Technology, Atlanta	Dec 2017
B Tech in Civil Engineering	Indian Institute of Technology Madras, India	May 2016

RELEVANT COURSEWORK

Analysis Courses	Advanced Strength of Materials, Advanced Structural Analysis, Finite Element Analysis, Structural Dynamics, Computational Methods in Mechanics, Structural Reliability
Design Courses	Advanced Structural Steel Design, Reinforced Concrete Members, Prestressed Concrete, Theory and Design of Plates and Shells, Analysis & Design for Wind & Earthquake, Bridge Engineering
Others	Case Studies in Structural Engineering, SEMM Seminar, Structural Modeling, Structural Engineering Lab, Rehabilitation of Existing Structures

SKILLS

- Revit®
- AutoCAD®
- MicroStation®
- midas Gen®
- STAAD. Pro®
- MASTAN®
- Visual Analysis®
- BXLRFD®
- GT Strudl®
- Matlab®
- Microsoft Office®

PROFESSIONAL EXPERIENCE

American Engineers Group, Pennsylvania

(May-Dec 2017)

(Summer Internship: May-July; Part Time Co-op: August-December)

- Designed a reinforced concrete box culvert bridge in accordance with PENNDOT Design Manual-4 and AASHTO
- Calculated differential settlement and prepared foundation report for the bridge
- Detailed the reinforcement and prepared CAD drawings in **MicroStation®**

National Center for Safety of Heritage Structures, India

(Aug 2015)

- Framed design tables for Conservation Architects to quickly configure the material type and dimensions of the shores to support a structure damaged by a natural calamity
- Designed the tables using design codes for wood and steel (IS:883(1994) and IS:800(2007))

Marvel Structural Consultancies, India

(May 2015)

- Designed steel portal frames of dimensions **60'x40'x14'**, **75'x45'x15'** and **400'x90'x30'** and optimized the amount of steel used in each design and the maximum amount of steel used was **6.5lb/sq.ft**
- Developed an algorithm in Matlab® to analyze 2D portal frames and designed a user interface to implement it, which would both validate an already proposed design and propose optimum section sizes

Indian Institute of Technology Madras, India

(May 2014)

- Analyzed the effects of uneven settlements caused by a nearby metro construction on a heritage structure
- Documented the 125 year old structure with arches, rib vaults, cylindrical towers, semi-circular and onion domes
- Generated 2D plans and 3D views of the building in **Auto-Cad®** and **Revit Architecture®** from the documentation
- Modelled the structure in **midas-Gen®** (a finite element modeling software) from the generated drawings
- Replicated the uneven settlements of the structure in the model and the places of distresses were found out

PROJECTS

Retrofit of Tabernacle Dance Floor (a mid-size concert hall in Atlanta)

- Modelled the before and after retrofit floor system and compared the dynamic and static results of both the models to check the soundness of the retrofit

Non Destructive Testing for Madras High Court, India

- Performed Infrared Thermography to analyze water seepage problem in the 150 years old masonry structure
- Conducted Bore Hole Endoscopy to get cross section detailing of the ceiling and to design a rehabilitation scheme

ACHIVEMENTS & CO CURRICULAR ACTIVITIES & HOBBIES

- Secured 98.77 percentile in IIT JEE (entrance test to top engineering college in India) out of **496,000** applicants
- Ranked among **top 10** in the batch, out of **104 students** in Civil Engineering Dept. of IIT Madras
- Secured **1st position** among 30 teams in the Design competition held at Civil Engineers Association Technical Fest where we analyzed different types of truss configurations for a roof to come up with an optimum design
- Runner up in Potential Professor Competition held at the Civil Engineers Association Technical Fest
- Volunteered for "Asha for Education" (a fundraising NGO aimed at helping underprivileged kids)