

## Experience

JUNIOR ENGINEER – DESIGN (2 Years 6 months)		From June 2019
Makeorbuy contracting Pvt. Ltd., Bangalore. (Geodesic Techniques Pvt. Ltd. Group)		
Roles & Responsibilities	Modelling the <b>shelter structure</b> or <b>commercial high-rise structure</b> as per inputs Calculating loads and load combinations with respect to codal provisions and applying it properly on the structure Analyzing the structure using Staad pro/Etabs and studying the load paths <b>Designing shelters/ High rise structure</b> includes design of members, purlins, sheeting and their connections in accordance with codal provisions <b>Design of foundations</b> by using standard excel sheets as per IS 456 <b>Design of machine foundations</b> as per IS 2974 for equipments. <b>Preparing excel sheets</b> for design, if required. Checking fabrication drawings & reviewing Tekla model as per the design given.	
PEB/Shelter structures		
Shelter 1	Designed the curved roof of area 15000 SQM using truss as per IS 800 Foundation design as per IS codes	
Shelter 2	Design of pitched roof truss of area 17000 SQM as per IS 800 Design of Isolated Footing complying with IS codal provisions	
Shelter 3	Development of complex truss geometry for purlin free roof Designed the pitched roof truss of area 21000 SQM as per IS code Design of foundation as per IS 456	
Manufacturing Plant	Design of roof (Area = 34000 SQM) in 3 different configurations – (i) Space frame, (ii) Truss and (iii) Primary and Secondary Beams as per IS codes	
Commercial/ Tall structures		
Commercial Building 1 (G+3)	Design of Steel Beams, Columns and braces as per IS codes Design of Machine foundation as per IS 2974	
Commercial Building 2 (G+17)	Designed the chiller platform level members and connections. Designed and strengthened the columns using stiffeners, which are inadequate due to inclusion of chiller platform. Identified and designed additional beams required for inclusion of walls by the client. Design of Isolated Footing complying with IS codes	
Commercial Building 3 (B2+G+30)	Developed AutoCAD script file to automate the generation of fabrication drawings Developed my leadership skill by heading a team of 7 detailers and delivered the fabrication drawings much before the deadline by proper planning and motivation, under pressure Carried out checking of fabrication drawings of beams, columns and shear walls	
Commercial building 4 (G+6)	Designed Composite Beams, CFT columns and Braces Designed Shear tab and web splice connection Prepared Floor-wise design report as a part of Work Breakdown Schedule	
Commercial building 5 (G+14)	Controlling Modal behaviour and story drifts under team lead’s guidance	
R&D		
Connection Program	Developed a part of back-end python program for connection design automation	
Composite Beam Development	Worked as a part of Research and Development team for developing a new economical and low depth composite beam section Studied the basis in which moment – load interaction curves are formed in SP-16, as a part of composite beam development	
Automation – Self Interest		
Staad - Loading	Automating Staad editor input using excel sheets as per IS codes & staad standards	
Autocad - Drawings	Developing autocad script file by using excel for automated drawing generation	

## Academic Profile

COURSE	INSTITUTION	YEAR OF PASSING	PERCENTAGE
M.E. - Structural Engineering	MEPCO Sclenk Engineering College, Sivakasi.	2019	89
B.E. - Civil Engineering	Sri Sairam Engineering College, Chennai.	2017	84.6
Higher Secondary	S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai.	2013	92.9
Secondary	S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai.	2011	94.2

## Accomplishment

- Completed the courses “**The comprehensive ETABS professional course (RCC and Steel)**” and “**Structural Steel design of Pipe racks**” in UDEMY
- Completed the IIT madras certification course on **PYTHON**
- Won **Best Paper award** for paper on “Thermal and acoustic performance evaluation of bricks incorporating sewage treatment plant sludge” in International Conference on Innovations in Engineering, Science and Technology 2019 (ICIEST 2019)

## Software Skills

- Analysis & Design – Etabs and Staad Pro
- Modelling & Drafting – AutoCAD
- MS Excel
- Cad Script
- Python

## Areas of Interest

- Steel Structures Design
- Automation

## Publications

- A journal on “Development of brick as a Thermal and acoustic resistant building component” in International Journal of Engineering Research and Applications (IJERA).
- A journal on “Experimental study of removal of Fluoride in water using Bio-Material” in International Research Journal of Engineering and Technology (IRJET)

## Languages

Tamil	Native Proficiency
English	Professional working proficiency
Telugu	Limited Proficiency

## References

- Haridoss B,  
Design Engineer,  
Geodesic techniques pvt. ltd.  
Contact No.: 9750423653.
- Naveen B,  
Design Engineer,  
Makeorbuy Contracting pvt. ltd.  
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