

Balaji K

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4, Kannan Avenue Main Road, Old Perungalathur, Chennai- 63

Experience

JUNIOR ENGINEER – DESIGN (2 Years 4 months)		From June 2019
Makeorbuy contracting Pvt. Ltd., Bangalore. (Geodesic Techniques Pvt. Ltd. Group)		
Enquiries		
Panchshil Equiniux Data centre (G+6)	Designed Composite Beams, CFT columns and Braces Designed Base plate and anchor bolts Designed End plate, Shear tab and web splice connection Prepared Floor-wise design report as a part of Work Breakdown Schedule	
Coco Cola Manufacturing Plant, Hyderabad.	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	
Storage shed, Gambia.	Development of complex truss geometry for purlin free roof Designed the curved roof of area 15000 SQM using truss as per IS 800	
RIL PV Manufacturing Shed, Gujarat.	Designed the pitched roof truss of area 17000 SQM as per IS 800	
Katerra warehouse, Bidadi.	Designed the pitched roof truss of area 21000 SQM as per IS code	
L&W Data Centre, Pune. (G+3)	Design of Steel Beams, Columns and braces as per IS codes	
Panchshil commercial building, Pune. (G+12)	Design of Steel Beams and CFT Columns	
M-FAR, Pune. (G+14)	Controlling Modal behaviour and story drifts under team lead's guidance	
Projects		
Phoenix – 285 T6, Hyderabad. (G+17)	Role: Acting Team lead Identified and designed additional beams required for inclusion of walls by the client. Connection design – Design of shear tab as per IS codes	
Phoenix – Equinox, Hyderabad. (B2+G+30)	Role: Assistant Engineer 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	
R&D		
Connection Program Development	Developed a part of back-end python program for automation and optimization of connection design	
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	
Precast Slab system	Worked as a part of R&D team in developing precast slab for achieving formwork free floor plate system Learnt the basics of Pre-tensioning, as a part of 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	
Internship		
Chennai Metro Rail Ltd.	Studied the Structural and Architectural drawings of metro stations The design and detailing of beams of metro stations are studied	

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 - Basics

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.
(Geodesic Techniques pvt ltd group)
Contact No.: 8903043535.