

Balaji Kannigesvaran

Email: krishbala49@gmail.com

Phone: +91-9487046716

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

Experience

JUNIOR ENGINEER – DESIGN (2 Years 6 months)		From June 2019 To Dec 2021
Makeorbuy contracting Pvt. Ltd., Bangalore. (Geodesic Techniques Pvt. Ltd. Group)		
Phoenix – 285 T6, Hyderabad. (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.	
Phoenix – Equinox, Hyderabad. (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	
Panchshil Equiniux Data centre (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	
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 Composite Beams and CFT Columns	
M-FAR, Pune. (G+14)	Controlling Modal behaviour and story drifts under team lead's guidance	
Python Automation		
Staad - Loading	Developed an automated input file for STAAD Pro using Python for creating error free assignment of loads to the various types of structures	
AutoCAD - Drawings	Developed a script file for AutoCAD using Python for automating the generation of fabrication drawings, which resulted in completion of months of work within few days	
Connection Program Development	Developed a part of back-end python program for automation and optimization of connection design	
R&D		
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	
Internship		
Chennai Metro Rail Ltd.	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	84.7
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
- Python
- MS Excel

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.