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**Balaji Kannigesvaran**

# 

# 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 drawingsDeveloped 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 pressureCarried out checking of fabrication drawings of beams, columns and shear walls |
| Panchshil Equiniux Data centre (G+6) | Designed Composite Beams, CFT columns and BracesDesigned Shear tab and web splice connectionPrepared 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 roofDesigned 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 sectionStudied 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 systemLearnt 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.