



Balaji K

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

Experience

Design Engineer - Trainee | JUNE 2019 - Present

Makeorbuy Contracting pvt. Ltd., Peenya, Bengaluru

➤ COMPOSITE BEAM DEVELOPMENT

- Worked as a part of Research and Development team for developing a new economical and low depth composite beam section.
- Learnt the design of composite beams and the impact of each element in design aspect.
- Studied the basis in which moment – load interaction curves are formed in SP-16, as a part of composite beam development.

➤ PHOENIX – EQUINOX

- Equinox is a 30 storey Steel structure, situated near Hyderabad. It is an office building consisting of 4 towers.
- Understood the necessity of **automation** and developed an AutoCad script file for the fabrication drawings of columns in such a way that only entering the column ID will generate its fabrication drawing.
- Learnt the importance of **planning** and improved my **leadership skill** by heading a detailing team of 7 members and released drawings faster by proper planning and motivation, under pressure.
- Carried out reviewing and **checking of fabrication drawings**.

➤ PHOENIX – 285

- Phoenix -285, Hyderabad is an office building having 16 storeys. Designed **connections** for very few members as a training activity.

➤ PETRAPOLE AIRPORT

- Petrapole is an airport project in West Bengal. Designed passenger entrance canopies in enquiry stage using STAAD PRO.

➤ PANCHSHIL

- Panchsil is a high rise office building with 12 storeys, located in Pune. Designed the entire building using ETABS in enquiry stage.

Education

Master of Engineering | June 2017 - May 2019

MEPCO Schlenk Engineering College, Sivakasi.

Stream: Structural Engineering | CGPA: **8.75**

Bachelor of Engineering | June 2013 - May 2017

Sri Sairam Engineering College, Chennai

Stream: Civil Engineering | CGPA: **8.46**

Higher Secondary | June 2012 - April 2013

S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai.

Major: Biology | Percentage: **92.92%**

Secondary | June 2010 - April 2011

S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai.

Board: Matriculation | Percentage: **94.2%**

Languages

- English - Professional working level proficiency.
- Tamil - Native level proficiency.
- Telugu - Limited proficiency.

Abilities

- ETABS ● ● ○ ○ ○
- STAAD PRO ● ● ○ ○ ○
- AUTOCAD ● ● ● ○ ○
- SCRIPT ● ● ● ○ ○

Areas of Interest

- Steel Structures Design.
- Structural Automation.
- Composite Design.

Internship

CHENNAI METRO RAIL LTD.

- The design and detailing of various components of metro stations are studied at a very shallow level.
- Studied the Structural and Architectural drawings of metro stations.

Accomplishment

- Won **Best Paper award** in International Conference on Innovations in Engineering, Science and Technology 2019 (ICIEST 2019).
- Participated in International Conference, "Industry 4.0 and Advancements in Civil Engineering" held at PSG Institute of Technology and Applied Research.
- Published a journal on "Development of brick as a Thermal and acoustic resistant building component" in International Journal of Engineering Research and Applications.

References

- Haridoss B,
Design Engineer,
Geodesic techniques pvt. Ltd.
Contact No.: 9750423653.
- Naveen B,
Design Engineer,
Makeorbuy Contracting pvt. Ltd.
Contact No.: 8903043535.