



# 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.

### ➤ COCA-COLA MANUFACTURING PLANT

- The roof structure of coca-cola manufacturing unit of around 34000 sq.m area has been designed in two configurations – Primary beam and secondary beam configuration and Space Frame.

### ➤ 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.