




Balaji Kannigesvaran

Junior Engineer

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Dedicated and hard-working employee with over 2.5 years of experience in Design of Steel structures, looking for a career change in IT sector. Individual having basic working experience in automating repetitive works using Python and Excel, wish to explore much deeper into programming.

Skills

- Python
- Excel
- Visual Studio Code
- HTML
- CSS
- JavaScript

Experience

Junior Engineer /June 2019 – December 2021

Makeorbuy Contracting pvt. Ltd. (Geodesic Techniques pvt ltd group)

- 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
- Developed an **automated input file for STAAD Pro** using **Python** for creating error free assignment of loads to the various type of structures
- Created a **library of possible sections**, which satisfies all the codal provisions using **Python**
- Developed a **module in python for calculating section properties** for various types of sections
- Worked as a part of backend program development for **connection design using python**
- Acted as a **team lead** for a 17 storey High-rise structure and **coordinated** with Client, Site team, Fabrication team, Detailing team and Planning Team.
- 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.
- Converted 2 tenders into projects by optimized design of structure

Accomplishment

- Completed the **IIT Madras certification** course in **PYTHON**
- Developed a webpage using **HTML, CSS** and **JavaScript** as a part of the course
- 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)

Education

Master of Engineering | MEPCO Schlenk Engineering College, Sivakasi.

Stream: Structural Engineering | June 2017 - May 2019 | CGPA: **8.90**

Bachelor of Engineering | Sri Sairam Engineering College, Chennai

Stream: Civil Engineering | June 2013 - May 2017 | CGPA: **8.46**

Higher Secondary | S.R.G.D.S. Mat. Hr. Sec. School, Thiruvannamalai.

Major: Biology | June 2012 - April 2013 | Percentage: **92.92%**

Secondary | S.R.G.D.S. Mat. Hr. Sec. School, Thiruvannamalai.

Board: Matriculation | June 2010 - April 2011 | Percentage: **94.2%**

Languages

- English – Professional Working level Proficiency
- Tamil – Native Proficiency

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)