Balaji K
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 Excel and Python, wish to explore much deeper into automation.

Skills

- Automation
- Python
- Excel
- Team Player
- Leadership skill
- Open to Learning

Experience

Junior Engineer /June 2019 – December 2021
Makeorbuy contracting pvt. ltd. (Geodesic Techniques pvt ltd group)

- Developed a script file for autocad using excel 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 excel 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**
- Created 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**
- Familiar with **Numpy and Pandas libraries**
- 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

Education

Master of Engineering | MEPCO Schlenk Engineering College, Sivakasi.
Stream: Structural Engineering | June 2017 - May 2019 | CGPA: **8.75**

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%**

Accomplishment

- 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)

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)