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| --- | --- | --- | --- | --- | --- |
| Balaji K Junior Engineer | |  |  | | --- | --- | | +91-9487046716 |  | | krishbala49@gmail.com |  | |

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

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| --- | --- |
| * 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)