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KARTHEEK VEERAMALLA

SKILLS

Languages: C#, JavaScript, Python, C++, MATLAB

Technologies: .NET Framework, .NET CORE, WPF, MVVM, SQLITE, SQL SERVER, GIT, DAPPER, three js, ENTITY FRAMEWORK CORE, AutoCAD APIs, REVIT APIs.

Soft Skills: Communication, Problem-solving, Critical thinking, Decision-making, Time management.

Technical Skills: Mathematics, Geometry, Structural Design, Structural Analysis, Mechanics of Materials, Concrete Design.

Tools: Visual Studio, AutoCAD, Rhino, NX CAD, STAAD-PRO, SOLIDWORKS, ETABS, ANSYS WB.

PROJECTS

AUTOCAD PLUGIN FOR HYDRAULIC PIPELINES DESIGN – *Magnarus Technologies*

AUGUST 2023 – OCTOBER 2025

- Involved in the development of a desktop based Hydraulic Pipeline Design software in AutoCAD using **AutoCAD's APIs**.
- Designed and implemented multiple dynamic and responsive menus in **WPF**, strictly following the MVVM design patterns.
- Developed an SQLite database that brings association to AutoCAD entities with custom data required for the application.
- Designed the application to perform CRUD operations on the fly with minimal delay.
- Implemented the Graph data structures to associate the data with different entities using QuickGraph Nuget Package.

REVIT AUTOMATION – *Personal Project*

JULY 2025 – CURRENT

- Automate renaming families, views, sheets, or elements to follow a naming convention using REVIT API for c#
- Automate Sheet creation and place views on them using REVIT API for c#.

OTHER EXPERIENCE:

Sabre Industries Inc, Hyderabad – *Structural Design Engineer*

AUGUST 2020 – DECEMBER 2021

- Worked as a design engineer for design of Utility (steel) Structures using ASCE 48-11, AISC 360-16.
- Designed various configurations of H-frames and monopoles using PLS POLE.
- Written programs in **C#** to help with automating tasks in **AUTOCAD** for drafters

INTERNSHIPS

AECOM, Chennai – *Structural Design Intern*

MAY 2019 – JUNE 2019

- Designed an underground metro station for Chennai Metrorail.
- Learned different stages of analysis required for an underground structure.

EDUCATION

IIIT-HYDERABAD, HYDERABAD – *M-TECH in Computer Aided Structural Engineering*

AUGUST 2018 – APRIL 2020

During the course special emphasis was placed on Finite Element Analysis and Earthquake Engineering.

OSMANIA UNIVERSITY, HYDERABAD – *B.E. in Civil Engineering*

SEPTEMBER 2014 – APRIL 2018