ASHWIN KUMAR, IGBC AP
BIM Engineer | BIM Automation

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CAREER SUMMARY

A BIM Engineer with National and International project experience in Architectural Design, BIM and Structural practices. having worked on projects from the initial Architectural Conceptualization stage to Structural Detailing and Precast Fabrication stage.

Interested in Programming (Python & C#) & Automation as I see that Technology can push your projects and workflows to new heights. Currently working with Revit, AutoCAD, Navisworks & Dynamo, I'm also an accredited Sustainability Professional (IGBC AP).

Il'm eager to join an organization supports innovation and offers the opportunity to work the software side of BIM using new and emerging technologies.

SCOPE OF WORK

- Structural RC, Steel & Rebar Modeling, GA & Shop Drawings in Revit.
- Architectural Modeling, Conceptualization & Visualization in Revit.
- Architectural Visualization using 3Ds Max, Revit, Unity3D, Lumion & Photoshop.
- Sustainable and Eco-Friendly Building Design (IGBC AP).
- Workflow optimization using Dynamo, Python & C# in Revit.
- Preparing Detailed Architectural Drawings in AutoCAD.
- VR/AR for Interactive Visualization in Unity3D.
- Clash Coordination Using Navisworks.
- NWD/IFC Coordination.

EXPERIENCE

BIM Detailer - Revit/Dynamo
CDM SMITH   September 2019 - Present

Responsible For Working With a team of Design Engineers On Various International (US & EU) Projects, Using Revit, AutoCAD, Navisworks and Dynamo.

- Structural RC, Steel Modelling & Detailing of WTP/WWTP.
- Rebar Modeling, Detailing of RC Elements Using Revit & Sofistik.
- Developing the Dynamo Community, Establishing & Maintaining Dynamo standards.
- Mentoring & Assisting colleagues with Dynamo.

BIM Detailer - Revit/Navisworks/Dynamo
CADS - MAKEITBIM   April 2018 - August 2019

Responsible For Working With a team of Engineers On Various International Projects (UK & EU), Modeling and Detailing Precast and Cast-in-situ RCC Elements Using Revit, AutoCAD, Navisworks and Dynamo.

- Modeling, Detailing of Precast & Cast-in-situ RC Elements Using Revit & CADS RC3D.
- Preparing General Arrangement and Shop Drawings for Precast elements.
- Rebar Modeling for Precast & Cast-in-situ RCC Elements Using Revit.
- Workflow Automation using Dynamo & Python in Revit.
- Clash Detection in Navisworks.
- NWD/IFC Coordination.

Civil Engineer - AutoCAD/Revit
RRS Consultants   July 2016 - March 2018

Responsible For Working Closely With Architects and Clients On Various Design And Construction Projects like Residential, Commercial,and institutional Buildings on Revit, AutoCAD and 3DsMax platforms. Creating Detailed Drawings, 3D Models, And Architectural Visualizations.

- Architectural Modeling,Conceptualization, Visualization in Revit Architecture.
- Preparing Detailed Plans, Sections, Elevations, Submission and Working Drawings.
- Architectural Visualization in Revit,3DS Max, Vray,& Photoshop.
- Preparation of as built Drawings from Site Measurement Data.
- Building By-Law intepretation.

CONSULTING EXPERIENCE

BIM Automation Consultant

IPMG   April 2018 - June 2018

Worked on Revit-BuildSystem Integration Project.

- Checking Feasibility of implementation with the Revit API.
- Reviewing BIM contractor project proposals.
- Advising on Technology stack & Development features

Architectural Design Consultant
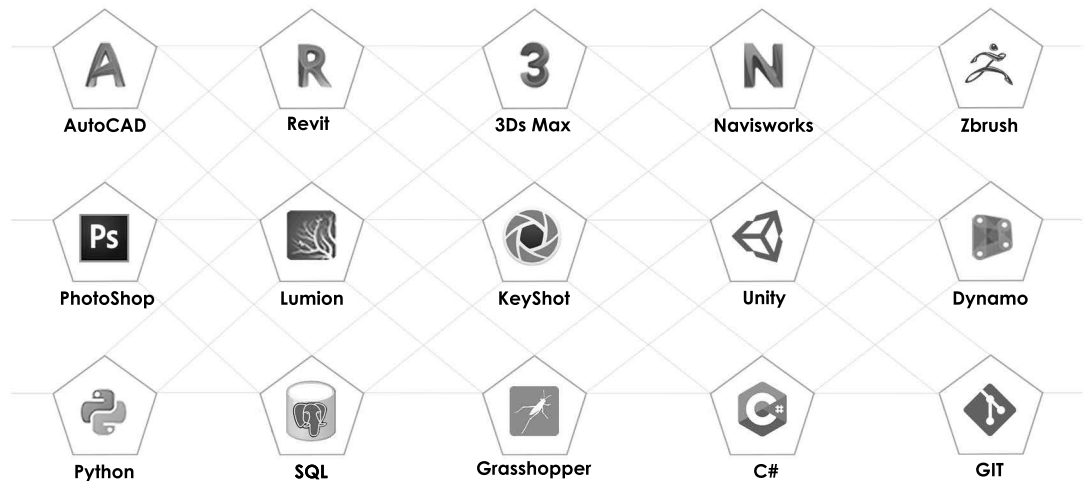
ELITE FOUNDATION   March 2018 - May 2019

Worked on Residential Design Projects on Revit, AutoCAD and 3DsMax platforms. Creating Detailed Drawings, 3D Models, And Architectural Visualizations.

- Created Architectural Drawings for Residential & Commercial Buildings.
- Created BOQ, BBS and Project Estimate for Residential Projects.
- Created Architectural Renderings for Residential Buildings.

TECHNICAL SKILLS

AutoCAD	Revit	3Ds Max	Navisworks	Zbrush
PhotoShop	Lumion	KeyShot	Unity	Dynamo
Python	SQL	Grasshopper	C#	GIT

PORTFOLIO

Modeling & Visualization

- 3D Modeling & Visualzation Projects done Using Revit,3DsMax,ZBrush,Lumion & Photoshop

  Link: https://www.behance.net/gallery/68421103/3D-Works

Automation & Programming

- Created efficient workflows & published a Custom Node package (AKP TOOLS) for task automation & optimization in Revit using Dynamo & Python.

  Link: https://www.behance.net/gallery/74484205/Dynamo-Python-Scripts

- Started converting my Dynamo & Python nodes to a C# plugin - AKP TOOLS

  Link: https://github.com/Ash112/Revit-Plugin

Virtual & Augmented Reality (VR/AR)

- Created Virtual Reality(VR) & Augmentd Reality(AR) Concept Apps for Android for Interactive visualization in Unity 3D.

  Link: https://www.behance.net/gallery/80708427/UnityARVR

Articles & Tutorials

- Written and published articles & Tutorials regarding the use of Python & Dynamo for Workflow Automation on Linkedin.

  Link: https://www.linkedin.com/in/ashwinkumarp

AREA OF INTEREST

- Sustainable Design(IGBC,LEED)
- Software Development.
- Workflow Automation & Optimization (Dynamo, Grasshopper, Python & C#)
- Applications of emerging technology in the AEC industry (Machine Learning, AI)

ACHIEVEMENTS

- Certified Indian Green Building Council Accredited Professional - IGBC AP
- Created and Published a Dynamo Custom Nodes package - AKP Tools
- C# Plugin for Revit - AKP Tools
- Introduced, established & Developed the Dynamo Community in my past two Workplaces.
- Written and Published numerous Articles Regarding the use of Dynamo, Revit & Python in the AEC Industry for Workflow Automation and Optimization on Linkedin.

ADDITIONAL SKILLS & INTERESTS

- Basic HTML, CSS, Flask, JavaScript, Git & PostgreSQL.
- Computational Deisgn.
- 3D Sculpting in ZBrush.
- Adobe After Effects & Sony Vegas Pro.

CERTIFICATIONS

- Autodesk Revit Structure 2015 Certified Professional
- Autodesk Revit Structure 2017 Certified
- Autodesk Navisworks Certified
- Indian Green Building Council Accredited Professional (IGBC AP)
- Professional in Building Design - Revit Architecture, 3DsMax, AutoCAD

COURSES

- PostgreSQL, GIT, Flask, Django (Ongoing)
- Data Structures and Algorithms (Ongoing)
- LEED Green Associate.
- An introduction to Machine Learning/Deep learning.
- Introduction to Computational Design.

LANGUAGES

- English - Bilingual Proficiency
- French - Elementary Proficiency
- Kreole   - Elementary Proficiency
- Tamil   - Native/Bilingual Proficiency

EDUCATION

Bachelor Of Civil Engineering (B.E Civil)

Meenakshi College Of Engineering   - 7.23 CGPA

Aug 2012 - April 2016