

Sarang Baheti

Summary

Principal Software Engineer, specializing in developing Large Scale CAD Software and curious about technology in general.

I love solving hard problems, learning new domains and creating applications that are manageable and amenable to change. I have 14+ years of experience developing CAD systems in C/C++/C# languages, with focus on: Architecture, Performance, Graphics, Load/Save, Geometry & Interop.

Experience

Siemens PLM Software Inc, Cypress CA

July 2012 - Current

Working in Assembly Modeling Team as a Principal Software Engineer

1. Lead Developer and Architect for VisAtlas Initiative
2. Lead Developer and Architect for 4GD Routing Application
3. Architect for MultiCAD, Jt & Facets in NX. Member of NX Architects Team
4. I help coordinate OSS and third-party integration across various Applications and Geographically dispersed teams
5. Mentoring team members, tools development, helping with autotest/unittest regression analysis and builds is something I do on the side all the time

Autodesk Pte Ltd, Singapore

Nov 2010 – May 2012

Worked in PSEB (Platform Solutions) division as Senior Software Engineer

1. Developed Arrays functionality in AutoCAD 2012 along with a few handy plugins for Law based curve creation and Prototype to declaratively and visually modeling a user defined features using WWF (Windows Workflow Foundation) and ObjectARX Framework
2. Worked on DesginScript (now [DynamoDS](#)) – then a research project for associative scripting language

Siemens PLM Software Pvt Ltd, Pune India

Jun 2005 – Oct 2010

Worked as Software Engineer in Assemblies Modeling Team

1. Lead Developer for LightWeight/Jt Facets Usability in NX75/NX8
2. Lead Developer for Enhancing Flexible Components in NX6
3. Utility Projects like Part Close Enhancements, File New Dialog and Migration Reporting Enhancements during NX404-NX5 releases

Skills

Expert in:

- C, C++ & NX & Jt Development
- Parasolid & JTtK Integration
- NX, TeamCenter, TcVis, 4GD & Routing Application
- Visual Studio IDE and Tools
- Performance Analysis and Tuning
- MultiThreading, Asynchronous Programming

Proficient in:

- WPF, .NET & Qt Framework
- Python, C#
- Linux/UNIX programming and scripting
- Source control with Git, Perforce

Education

M Tech, Mechanical Engineering

Aug 2004 – Jul 2006

Completed Masters with specialization Design Engineering from VJTI Mumbai with 78.5%

B. E. Mechanical Engineering

Jul 1999 – May 2003

Completed Bachelor of Engineering from Bharati Vidyapeeth's CoE Pune with 61%