Overview

Objective	To deliver projects systematically & professionally through collaboration with client

Profile
- Microsoft Technologies Developer
- 15+ years' work experience
- Manufacturing, CAD, aerospace domain
- Bachelor of Engineering – Mechanical
- Advanced diploma in software development

Technology Skills
- VB.Net, C#.Net
- VBA, Excel VBA
- OOP, Design Patterns
- VB6 to VB.Net migration
- Fortran to C# migration
- Fortran to Java migration
- XP to Windows 7/10 migration
- CATIA V5 APIs

Domain Skills
- CAD, design automation, KBE (Knowledge Based Engineering)
- Aerospace
- Automobiles
- Manufacturing
- Radiators

Databases
- Excel, MS Access
- MS SQL Server
- Oracle

Tools
- Visual Studio
- SQL Server Management Studio
- VSS, WinMerge, Beyond Compare, Rational tools
- MS Office, Visio
- NetBeans, Bitbucket, SourceTree, SQL Developer
- Agile methods

Details

Work Experience

Organization	Profile	Years
ThinkSmartSoft, Pune	Sr Tech Consultant	1
dtj Mfg-Ex Pvt Ltd, Pune	TPM Engineer + IT Support	2
Siemens, Pune	Tech lead	1
HP, Pune	Sr Programmer, Spirit Aero IT	4.5
Infosys, Mysore	Programmer, Boeing KBE	3.5
Neilsoft, Pune	Autodesk CAD programs Testing	2.5
PE Engineers, Hyderabad	Graduate Trainee Engineer	1

Sample Projects

Fortran to Java upgrade
- Understand existing Fortran code for scientific heat exchanger Performance calculations
- Upgrade legacy Fortran code to Java REST service that uses JSON for I/O
- Test for similar results including numerical accuracy

Fortran to .Net upgrade
- Understand existing Fortran code for critical speed program
- Upgrade legacy Fortran code to C# code
- Test upgraded C# program

Torque Advisor – App for storing assy engg tech specs
- Design, code and test app that allows data entry and then lookup of technical engineering data for assembly line shop.
- Collect engg. specs data through UI of VB.Net desktop app, store in MS SQL Server DB using Entity Framework, look up Torque values for specified assembly Joint in production.

CAxToolBox - Tool for quick installation & user configuration of CATIA
- Design, code and test quick installation tool that allows production user to switch between different Releases/Versions of installed CATIA and configure relevant prod settings to make CATIA session prod ready.
- Unregister other versions and register required CATIA version with Windows.
- Copy config settings specific to user role, CATIA version from data server and make CATIA session prod ready. Assign correct Permissions for fool proofing.

SPC Tool
- Design, code and test VB.Net Statistical Process Control app that reads manufacturing data from Excel and plots it using color coding in CATIA to give a graphical/visual feel of the data as feedback for further Process correction.
- Read MS Excel measured manufacturing data, classify data using business rules, plot data with color coding in CATIA, perform what-if analysis to guide process correction. Make a maintainable app using MVC architecture.

NC QA Audit tool
- Design, code and test VB.Net app that reads text format machining data from NC program file (prepared by ME), reads design data from CATIA model prepared by Design, and perform an audit with reports for QA.
- Read 2 different formats of the same data prepared by different functional groups and prepare QA reports in Excel (concept is like Beyond Compare/WinMerge diffs).

KBE (Knowledge Based Engineering) apps
- Design, code and test VB.Net desktop apps that embed Customer Process Knowledge (design, manufacturing, QA etc.) into a software system to reduce human errors, increase productivity, make process less person dependent.
- Collect user inputs from UI, take required action in CATIA app (through its public APIs), present summary results to user.

Fast searching for 3D objects
- Spatial searching framework for 3D objects (as part of training). A framework which supports spatial indexing and searching of any kind of geometric object (e.g. points, line, triangles etc.) in minimum time using concepts like geometric hashing, Quadtree, Octree.
- Build data structures and algorithm to implement faster search of 3D objects using C++ program.

Education

Qualification	Institute	Date
Advanced diploma software dev	Center for Computational Technologies Pune	2007
B.E. Mechanical	Pune University	2002
HSC	Pune	1998
SSC	Pune	1996

Personal Data

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Extra-Curricular	Interested in Hindustani Classical Music