

PRASANNA KUMAR

VC++/MFC Windows Developer

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Career Objective

IT Professional with **3 Years 3 Months** of experience specializing in **Windows application development using Visual C++/MFC** to develop Healthcare Cardiology Applications. My greatest strength is deep understanding of Project Domain; it enables me **to develop efficient applications**.

Experience

- 3 Years 3 Months of experience in software development using **C, C++, VC++, Win32, MFC, C#, DLL and STL**.
- Hands-On experience in developing business objects using Delegates and events using C#.
- Developed **Customized Toolbars, Controls and Layouts to improve the Clinical Productivity**.
- Involved in the **Coronary and Vascular Analysis**, Implemented reports for diastolic and systolic outputs.
- Developed **Dialog and View screens for Visualization of Arterial Shape and Condition during image review**.
- Proficient in C++/OOPS Concepts like Class, Object, **Inheritance, Polymorphism, Abstraction, Encapsulation**.
- Hands on experience in using **Device Context Objects, and GDI objects like CBrush, CPen, CBitmap, and CRgn**.
- Hands on experience in **GUI development** and worked on **Modal/Modeless Dialog Boxes** of Win32 and MFC Applications.
- Hands on experience of Control Customization/Sub-Classing.
- Designed and implemented **Dialog based as well as SDI/MDI (Doc/View Architecture)**.
- Experience on **STL Containers like Map, Vector, and List**.
- Hands on experience in **Win32 DLL's & MFC DLL's**.
- Experience on **Component Object Model (COM) DLLs**.
- Good Understanding in **Window Message Map Architecture and Message Handling Mechanism in MFC library And Win32**.
- Hands on experience on **Multithreading and Thread Synchronization objects like Critical Section, Mutex and Semaphore, Events**.

- Having Experience on **Agile Development Methodology**.
- Experience on **Design Patterns** like **Singleton, Factory, Bridge & Observer**.

Education

BTECH (IT)

Keshav Memorial Institute Of
Technology, NarayanaGuda
2017

Inter (MPC)

Kakatiya Junior
College,Jammikunta
2012

SSC

St Joseph's High School,
Jammikunta
2009

Career Objective

- **Company Name** : **Lotus Analysis Pvt Ltd.**
- **Duration** : Since **December 2017** to till date.
- **Location** : **Mumbai.**
- **Designation** : **VC++/MFC** Windows Developer.

Technical Skills

Programming Languages

C,C++ ●●●●●
Visual C++ ●●●●●
.net Framework, C# ●●●●●
MFC, win32API ●●●●●

Technologies

Win32, MFC, DLL ●●●●●
WinSock API, COM ●●●●●

Development Tool

Visual Studio 2012 ●●●●●

Source Control Tools

Team Foundation
Server (TFS) ●●●●●

Data Base

Microsoft SQL Server ●●●●●
2012

Project Details

- **Project** : Centricity Cardiology Enterprise (CCE).
- **Client** : John F Welch Technology Center (JFWTC).
- **Position** : VC++/MFC Windows Developer.
- **Environment** : Multithreading, VC++,C++,C, C#,Win32 API, Microsoft Foundation Class (MFC),Visual Studio 2012, Windows 7, SQL Server 2012, Team Foundation Server (TFS).
- **Team Size** : 11
- **Duration** : December 2017 to till date.

Project Description

Centricity Cardiology Enterprise is an integrated **cardiology imaging and workflow** solution that provides a unified view of **clinical images**, with customizable workflows and the ability to view related **radiology images**. Centricity Cardio Enterprise provides remote, web-based access to a patient's imaging data across specialties, **allowing the care team** to easily collaborate, regardless of location.

Features

- Coronary Analysis
- Volume Analysis
- Stress Echo Analysis
- Stenosis Analysis
- Ventricular Analysis
- Connect with GE HealthCare MUSE ECG System

Stenosis Analysis

With SA, users can graph and measure stenosis or blockages in a coronary vessel. SA uses clinically validated algorithms for automatic contour detection. While the edge detection algorithm is optimized, users may also manually fine-tune the automatically detected edges for higher clinical confidence.

Roles

- Single, and Combined orthogonal views are implemented using MFC CView Objects, for analyzing the Pre - and Post-PTCA, Vessel Analysis.
- Involved in the MFC GDI Programming, where existing reports are upgraded to include the reference image, percent are occlusion, percent diameter reduction, and size of normal and stenosis vessels (in millimeters).

Digital Subtraction

Digital Subtraction Angiography (DSA) - DSA assists in improving the visualization of arterial shape and condition during image review. The user easily can toggle between subtracted and un-subtracted image views.

Roles

- Designed MFC CDialog Objects for parameter configurations, to implement DSA Dialog Display, which can be modified by adjusting parameters such as image mask, horizontal and vertical pixel shift, and collimation.
- Fixing the issues related to RGB objects, for improving the visibility of the artery (ies), in contrast mode.

Ventricular Analysis

Define diastolic and systolic outlines of the left ventricle to automatically calculate ejection fraction, a key assessment for determining the strength of the heart chamber. VA supports single plane and bi-plane analysis of left ventricular functions using the Centerline or Radial Chord wall motion algorithm.

Roles

- Involved in the Coronary and Vascular Analysis.
- Implemented VA Report includes an image with appropriate traced graphic outlines, wall motion graphs, ejection fraction and other related parameters.
- Implemented volume analysis algorithm to calculate the volume of left ventricle using the Dodge Area-Length method.
- Developed GUI using MFC Framework, where Users may select different calibration styles including internal marking, cross marking or point-to-point distance.
- Implemented reports for diastolic and systolic volumes, cardiac output and cardiac index calculations.

Date:

Place: Mumbai

Prasanna Kumar M