SUBHADIP MAJHI

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O b j e c t i v e

To take a challenging performance oriented role in the field of **Navigation Systems, Surveillance, and Communications** areas and implement the learning gained in this field to develop complex project with efficiency and quality and my responsibilities in an effective manner and hence become a part in company's growth process.

P r o f e s s i o n a l   S u m m a r y

- ❖ **8 years** of Professional experience in Navigation Systems, Surveillance, and Communications areas.
- ❖ Involved in Development of Several Systems for GPS & GLONASS.
- ❖ Implemented different type of **Signal Processing Algorithms**.
- ❖ Experience in software design & development in Windows OS.
- ❖ Having good depth on C, **C++, VC++, MFC and DLL.**
- ❖ Excellent understanding of Software Usability and designing user friendly GUI's.
- ❖ Hands on experience on **DLL's(Static, Dynamic, Regular and Extension)**
- ❖ Excellent design, debugging & optimization skills.
- ❖ Experience developing software communications with external devices.
- ❖ Ability and/or willingness to work with emulators and hardware tools.
- ❖ Experience with typical embedded control peripheral such as A/D, D/A, general purpose I/O.
- ❖ Experience with standard version control systems**(GIT, SVN)**

W o r k i n g   S u m m a r y :

- ❖ **Current Job Title**   :   Senior System Engineer
- ❖ **Current Employer**   :   Core Scientific Systems, Kolkata.
- ❖ **Dates Employed**   :   February 2015 to till date.

T e c h n i c a l   S k i l l s :

Skill Type	Description
Programming Languages	C/C++, VC++.
Technologies	Win32 SDK,MFC,COM.
Framework	VC++ 6.0, VC++ 7.0, VC++11.
Operating Systems	Windows XP,7,8,10
Libraries	Win32 API,DXSDK
Tools	Visual Studio, MSBuild

PROJECT 1: Designed and Development Multi-element System Feb2015 -To-April2017

Client   : Defense Research & Development Organization (DRDO).
Organization   : Core Scientific Systems, Kolkata
Environment   : C++,VC++, MFC,COM, Multithreading.

Description:

- ❖ Provide a very high end Simulation Tool for Higher Frequency and visualizing the replica of the real world process.
- ❖ Schematic based system development software.
- ❖ Simulations and real-time C++ codes transferable to standard processors.

Benefits:

- ❖ Provides software building blocks like hardware components (chips and modules).
- ❖ Once the system is assembled using the software building blocks, the system can be simulated and tested under user-specified conditions.
- ❖ The simulated system is ready for real-time operations.
- ❖ Various hardware options for real-time input/output are available.
- ❖ Graphical User interface for design and simulation.
- ❖ Built-in object-oriented components allow for easy adjustments.
- ❖ User-defined modules and components can be easily integrated.
- ❖ User-defined components can be in C, C++, FORTRAN, and assembly.

Roles and Responsibilities:

- ❖ Analysis of the Specifications provided by the clients.
- ❖ Understanding the requirements and specification algorithms and preparing high level design.
- ❖ Developing the application and do the unit testing.

PROJECT 2: Anti-Jam System Development   May2017 -To-Feb2020

Client   : Defense Research & Development Organization (DRDO).
Organization   : Core Scientific Systems, Kolkata
Environment   : VC++, MFC, EW, ELINT.

Description:

- ❖ The Anti-Jam System is indigenously developed by us use spatial filtering to eliminate any narrow or broadband interference or jamming signal from GPS/GLONASS bands.
- ❖ It is configured as an add on to any standard navigational receiver and provides an interference free clean signal to the navigational receiver.
- ❖ The system is a plugin unit in replacement for conventional antenna to a GPS/GLONASS receiver.

Roles and Responsibilities:

- ❖ Determination of indigenous specification.

- ❖ Involved in meeting with functional team to understand the functional specification properly.

- ❖ Supervised the team in developing testing and evaluating technical solution.

- ❖ System Integration and Test Setup Demonstration.

PROJECT 2: Development of Propagation Model for Ionospheric Research
March2019 -To-TillDate

Client	: InSpace, LLC.(USA)
Organization	: Core Scientific Systems, Kolkata
Environment	: VC++, MFC, FORTRAN, ELINT.

Description:

- ❖ The software allows integration of many disparate types of data in the characterization of a fully 3-dimentional time dependent ionosphere over any portion of the Earth. The location and size of the region of interest as well as the latitude, longitude, altitude and time grid sizes are fully adjustable by the user in real time.
- ❖ All of Propagation data are assimilated and self-consistent ionospheric profiles are generated. The system utilizes various theoretical and physical models to supplement incomplete data sets, and in the absence of any data only the theoretical models.
- ❖ Ionospheric parameters, propagation of externally collected data can also be analyzed with this model.

Roles and Responsibilities:

- ❖ Participated in the design and development of new architectures and frameworks for model product.

- ❖ Interact and collaborate on product and demonstrate with the team of engineers.

- ❖ Participated in code and requirements reviews and play a lead role in defining and maintaining the core software development process.
- ❖ Provide technical and project leadership between engineering and product management to focus on maximum positive result.

E d u c a t i o n   Q u a l i f i c a t i o n :

- ❖ Completed Bachelor of Technology on Electronics and Communication Engineering from WBUT, with the DGPA of 7.90 in the year 2013.

Place: Kolkata   (SUBHADIP MAJHI)
Date: