<u>Over 14+ years of experience</u> in development with C++, Visual C++, MFC. Currently working as Module Lead at Mindteck India Limited, Kolkata
(http://www.mindteck.com)

Asit Kumar De

29, Tentul Tala Lane,
P.O. Mankundu Dist. Hooghly
PIN. 712139 West Bengal, INDIA
Mobile: +91 9432438732
Email: asit.de@gmail.com
Skype ID: asitde

PROFESSIONAL SUMMARY:

Experience/Knowledge In:

* Operating Systems: Windows 10, 7/ Vista/ XP, WinCE-6, Ubuntu
* Languages : C++, Visual C++, MFC (Microsoft Visual Studio 2017, 2013, 2008 and 2005), JAVA
* Tools: Sub-Version (Version Control), CVS (Version Control) , Cygwin, Virtual Box
* Technology focus: Medical Instrumentation, Automation, Image processing, Embedded Programming, Windows Socket Programming , Cryptography, XML Parsing, COM Automation, Win 32 programming using Platform SDK, Microsoft Foundation Classes (MFC) and BREW 3.1/ Android for handset development

EXPERIENCE:

Mindteck India Limited, Kolkata   Apr2016 –Present
Module Lead

Star Mind Technologies Pvt. Ltd, Kolkata   Dec2013 – Apr2016
Principal Software Engineer

Versine Technologies Pvt. Ltd, Kolkata   Aug2008 –Nov2013
Senior Software Engineer

TOR ANUMANA Technologies Pvt. Ltd, Kolkata   Aug2006 – July2008
Software Engineer

Web Vision Systems, Kolkata   July2003 – Aug2006
Software Engineer

QUALIFICATION:

* Bachelor of Technology (Computer Science & Engineering) from Haldia Institute of Technology, Haldia India in 2003

B. Tech	76.50%
Higher Secondary Examination	80.00%
Madhyamik Examination (Secondary)	81.44%

PERSONAL DETAILS:

* Date Of Birth: 06-Sep-1979
* Marital Status: Married
* Languages Known: English, Hindi, and Bengali.

PROJECTS HANDLED: (*Reverse Chronological Order*)

 # Mindteck India Limited, Kolkata
Module Lead

Language:	Visual C++ using MFC (Microsoft Visual Studio 2005)
System:	WinCE 6.0
Location:	Mindteck India Limited, Kolkata
Duration:	April 2016 – Present
Team Size:	52

Project Description:
Mobile patient monitoring system along with defibrillator. A modular system that provides monitoring and defibrillation facilities for the patients where the conventional monitoring facilities are not available ex., battlefield or in-flight emergencies. The entire system is embedded inside one portable device and has the capable of communicating with other instruments or monitoring stations through Wi-Fi or Bluetooth.

 # STArMind Technologies Pvt. Ltd.
Principal Software Engineer

Project Name:	**SAGITTARIUS**
Platform:	Windows 7, Windows VISTA, Windows XP
Language:	VC++ (Visual Studio 2013 & 2008) using Win32 SDK and MFC
Client:	*Star Technologies, Taiwan*
Location:	STArMind Technologies Pvt. Ltd. Kolkata
Duration:	February 2014 – March 2016
Team Size:	6
Role:	Developer

Project Description:
SAGITTARIUS is parametric test software developed with the requirements from different semiconductor test and measurement companies and organization. It integrates most parametric instruments and probe stations and has the ability to control engineering and automatic probe stations. SAGITTARIUS helps to define test flows, I-V characterization, run data analysis on obtained test results, etc. The application can send command to the devices using protocols like GPIB, RS232, and TCP/IP and can read back the response in real time to update the UI.

 # Versine Technologies Pvt. Ltd.
Senior Software Engineer

Project Name:	**MAGIC**
Platform:	Windows 7, Windows VISTA, Windows XP
Language:	VC++ (Visual Studio 2013 & 2008) using Win32 SDK and MFC

Client:	*Star Technologies, Taiwan*
Location:	STArMind Technologies Pvt. Ltd. Kolkata
Duration:	April 2010 – January 2014
Team Size:	3
Role:	Developer

Project Description:
MAGIC is a software to control a semi-automatic probe station used for probing *light emitting diode (LED) and resistor wafers*. It is multithreaded software that can handle precision controlled motion device, camera, joystick, digital I/O devices and several other hardware devices simultaneously. The application can send command to these devices using protocols like GPIB, RS232, and TCP/IP and can read back the response in real time to update the UI. Additionally, the product uses advanced image processing algorithms for pattern recognition and shape detection to identify the LEDs/ resistors and trigger test on them.

Project Name:	**PSIX**
Platform:	Windows 7, Windows VISTA, Windows XP
Language:	VC++ (Visual Studio 2013 & 2008) using Win32 SDK and MFC
Client:	*Star Technologies, Taiwan*
Location:	Versine Technologies Pvt. Ltd. Kolkata
Duration:	August 2008 – March 2010
Team Size:	3
Role:	Developer

Project Description:
PSIX is a software to control a semi-automatic probe station used for probing *semiconductor wafers*. It is a multithreaded system to handle motion control, camera, joystick, and several other hardware devices. The application can send command to these devices using protocols like GPIB, RS232, TCP/IP and read the responses from them simultaneously to update the UI. The application uses image processing techniques like shape detection, pattern recognition edge detection, etc to align a wafer placed on the chuck or for stepping from one die to another within a wafer

TOR Anumana Technologies Pvt. Ltd
Software Engineer

Language:	Microsoft Visual C++ using raw Win32 SDK (Microsoft Visual Studio 2005)
System:	BREW 3.1
Location:	TOR Anumana Technologies Pvt. Ltd Kolkata
Duration:	August 2006 – July 2008
Team Size:	7
Role:	Developer

Project Description:
Worked on developing a communication protocol between a hand held mobile device and a remote machine using secure TCP/IP connection. For any product that involves both end connectivity between a handset and a remote machine the communication protocol can be used. The handset uses XML streams to issue command which is thereafter encrypted and transmitted to the remote machine with which it is connected. The remote machine on receipt of the command decrypts the xml stream, recreates the command, execute it and send the response back to the handset following the same protocol.

Using the communication pipeline mentioned above the company made several utility applications like controlling a power point application with a mobile device or taking back up of the files stored in a mobile device to a remote machine.

Web Vision Systems
Software Engineer

Project Name:	**Inspector F**
Platform:	Windows 9x, Windows 2000, Windows NT 3.x and Windows XP
Language:	VC++ using Win32 SDK, MFC, VB, ASP, XML, XSLT
Client:	Basu Technology Inc., USA
Location:	Web Vision Systems Kolkata
Duration:	December 2003 – August 2006
Team Size:	5
Role:	Developer

Project Description: Inspector F is a Windows based document management utility focused on the easy accumulation, presentation and modification of document properties. It also supports many other enterprising features like Print, Print Preview, Settings, Online Help and multi user support.

Responsibilities: Design and Implementation for constructing data structure required for the application. Worked extensively with the extraction of data/meta-data from Outlook PSTs, PDF files, Windows Media Files using OLE Automation

Project Name:	**Geographical Data Extraction from AutoCAD Designs**
Client:	AT&T
Location:	Web Vision Systems
Team Size:	2
Role:	Testing
Duration:	July 2003 – August 2005
Operating System:	Windows2000 workstation
Database:	Microsoft Access 2000
Tools:	Visual Basic 6, AutoCAD 2000
Report Writer:	Seagate Crystal Report8.0

Project Description: The network of telephone cables of USA are designed by AT&T with AutoCAD drawings. These drawings contain both spatial/geographical information and cable information. The information content of these drawings were not in a generalized format and as such it was difficult to extract that information with a standard procedure. The main objective of this project was to establish a generalized automated data extraction process from those AutoCAD drawings. Once such an automated process was established we designed a mechanism to dump the extracted data in a suitable database for further query processing. This process of automated data extraction required a complete understanding of the AutoCAD object model. In addition we need to understand the processes like co-ordinate shifting, latitude-longitude conversion, and reconciliation from shifted data. The process came with a user friendly front end GUI for making queries on the database. For example if a fault is detected for a cable line across a particular road with a given lat-long value. In order to locate the fault the user will query the database with reference to the lat-long value. The output will be the list of links of drawings that describes that particular lat-long value from which the exact fault location can be identified.

Responsibilities: Testing the extracted data with that in the AutoCAD drawings. Tested the query interface for various user inputs and assessed the outputs.