

# **RESUME OF CLARENCE W. POTTER**

## **SUMMARY OF QUALIFICATIONS**

Clarence W. Potter has been continuously involved in computer automation and information systems for the last ten years. His predominant area of expertise is in designing and developing automated systems, especially Artificial Intelligence (AI) and decision support systems for managerial analysis. His most recent experience focuses on analyzing medical research requirements and data modeling of decision support systems to improve the information management and processing requirements to support clinical research. The data modelling depended heavily on the ability to relate the many complex interfaces between automated systems and the complexity of the data relationships. Previously, he evaluates information requirements to define distributed automation architectures, military logistical applications, and command and control systems. He has a total of twenty years of automation, project, and personnel management experience.

## **EDUCATION**

Masters of Computer Science, 1988, University of Tennessee, Knoxville, TN.

Bachelors of Business Administration (Accounting), 1978, University of Texas at Arlington, Arlington, TX.

## **EXPERIENCE**

### **UNIVERSITY OF NORTH CAROLINA**

1994-Present

Mr. Potter joined UNC in the position of Computer Systems Analyst in 1994. Initially, he supported the data analysis requirements and managing the computing resources for the General Clinical Research Center (GCRC). The GCRC transitioned to a different structure as the TraCS Institute, under the CTSA program of the NIH. At that time, Mr. Potter, focused solely on the clinical data requirements for investigators. He manages the REDCap data service for TraCS Institute since 2009, providing guidance on design, consulting, training, and troubleshooting, as well as, the maintenance of servers and software.

### **SYSTEM RESOURCES CORPORATION**

1992 - 1994

Mr. Potter joined SRC in the position of Systems Analyst in 1992. Since that time he has been involved on a daily basis with solving a myriad of diverse problems relating to the implementation and fielding of automated systems in the field of military logistics. His tasks include data and process modelling using the IDEF methodology, management and planning tasks, determining the best methods to implement software solutions and staffing

those proposals, and evaluating and recommending hardware and software products throughout a complex array of systems interfaces and operating environments. He is currently leading SRC's project using AI in support of metrics analysis. Mr. Potter also defines requirements for the innovative application of advanced technology initiatives including microcircuit technology, smart cards, barcoding, wireless LAN/WAN, and RF/ID for logistics systems.

He applies the knowledge of the individual systems in the integration tasks, troubleshooting real world problems, and in the development of new concepts and procedures, as in the Model DSU, new fielding strategies, front-end expert system for the Project Managers Support System, and the Split Operations (Sanctuary) concept. He provided support for the modernization of SARSS. Special studies, one for data compression across all PEO STAMIS programs and another to capture functional dependencies, required the indepth analysis of functional interfaces between the units and organizations for all STAMIS, as well as the interfaces to the wholesale and national systems. Mr. Potter evaluated IDEF modelling tools for use by Systems Resources Corporation.

#### UNITED STATES ARMY

1978 - 1992

Mr. Potter was a Systems Analyst, Branch Chief, and Division Chief with the U. S. Army Combined Arms Support Command from 1988 - 1992. As an analyst, he defined functional requirements and wrote procurement documents for standard Army logistics, advanced decision support, expert systems, and graphical user interface applications. He defined requirements for the inclusion of automatic identification technology (AIT), microcircuit technology (MITLA), and radio-frequency (RF) technologies in SAAS to meet the functional requirements of the users. Also for SAAS, he defined the requirements for an outload planning application over rail and highway modes.

He defined the original Artificial Intelligence strategy for decision support applications within the 27 management information systems. Among the application were those for ammunition compatability and quality control in SAAS, enhanced transportation planning for DAMMS, workload optimization in SAMS, and Class IX planning in SARSS. The strategy included both those to improve production capability and those as products to be distributed to the more than ten thousand Army customers. Mr. Potter integrated management information requirements for the logistics command and control system with the myriad of supporting transaction-oriented data systems and determined functional requirements for automating course of action and other high-level planning tasks.

Mr. Potter took the initiative in defining a modernization plan for office automation system including a corporate information system. He planned for the use of standardized CASE tools across diverse organizational boundaries to revolutionize the development of software applications. Finally, he defined requirements for contractor support of a major data modeling effort to create a tool to capture and analyze data flows for CSSCS.

He led the organization by providing global direction and set priorities for projects to enhance current systems and future operations. He always looked toward the future needs, finding better ways to operate, and increasing productivity. His career has frequently required the simultaneous leading of multiple projects across a broad spectrum of dissimilar requirements. Due to his technical and military expertise, he was selected for the source selection board for a major Army program.

Mr. Potter served as a Battery Commander and Division Staff Officer, in the 82nd Airborne Division from 1982 - 1986. He also has served in a wide variety of company leadership positions in Korea, and Texas from 1978-1982. In all positions he demonstrated experience in management, logistics, personnel administration, medical benefits, and leader development techniques.

### HARDWARE EXPERIENCE

Over the years, he has had variety of programming experience on VAX mainframe, HP and Sun UNIX workstations, Windows personal computers/servers, MySQL servers, and Apache web servers.

### SOFTWARE EXPERIENCE

Artificial neural networks written in C for character recognition. Programming experience with in C, PROLOG, LISP, PL1, and COBOL languages; M1 and CLIPS expert system shells; and most recently SQL and PHP. Previous projects include building a database management system, text editor, and compiler. Database programming with dBase IV. Defined requirements for data modeling, case tools, hypertext, e-mail, and various office applications, such as word processors, database systems, and spreadsheets.

### RELEVANT PUBLICATIONS

Thesis: "Using Artificial Neural Networks in Recognizing Printed Characters", Dec 88, University of Tennessee at Knoxville.

Conference Paper: "The Metrics Management Decision Support Tool", A National Symposium and Exhibition on Advanced Information Systems and Technology, Mar 1994.