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# James C. Bonesteel

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## EMPLOYMENT

*Independent Consultant*  
1998 - Present

Advanced Management Systems, Inc  
165 Jordan Road, Troy, NY  
*Software Project Manager*  
1993 - 1998

Digitronics Sixnet  
Northway Ten, Clifton Park, NY  
*Senior Software Engineer*  
1984 - 1993

## PROFESSIONAL ACHIEVEMENTS

- Object Oriented Design** Designed a number of complex object oriented applications using C++ including an engine that rapidly moves data between databases and/or flat files which allows the user to totally configure any number of different types of records and records within records for the moving of data. In addition, designed and implemented a template feature which allows data to be inserted into a pre-defined form. This application provides for the customization of automated systems without a large programming effort. Design effort included detailed specification and object model.
- Database** Co-designed a very large Sybase application. This system currently automates the entire premium audit departments for a number of major insurance companies nationwide. Designed a C++ class library for database access using Sybase CT-Lib and DB-Libraries. Designed and implemented a batch scheduling system for the automated processing of large quantities of data during non-business hours. Developed user interfaces using PowerBuilder. Experience with entity/relationship data modeling using Erwin-ERX.
- Operating Systems** Designed and developed the multitasking operating system of the 60-IOMUX real-time controller. This product resulted in over 80% of sales during the past several years of employment. Operating system features include a real-time kernel, sophisticated file system and support for co-processor daughter boards.
- Networking** Designed and developed a proprietary token passing network which facilitates the high speed transfer of digital and analog I/O points as well as serial data between many stations. Designed all layers from the individual bits on the wire, to the token control, to the handling of data packets.
- Management** Supervised large software and hardware development efforts involving multiple team members. Responsibilities included resource, time and budget planning and scheduling as well as overall technical responsibility and support.
- Quality** Coordinated the process of developing a Quality Manual and procedures for conformance to the ISO 9001 Standard for Quality in Design, Production, Installation and Servicing. Initiated and established a company wide Coding Standard for source code written in C. Instituted a source code inspection process to improve the overall quality of all software projects.
- Languages** Expertise with C, C++, Windows 95/NT, MFC, Assembler, SQL, Unix, Pascal, and PowerBuilder.
- Process Control** Designed a wide range of real-time control systems, including algorithms for proportional, integral and derivative control, as well as flow, position, and machine control.
- Instruction** Trained employees, customers, and vendors in various subjects including advanced C programming, industrial controls, and use of products.
- Writing** Wrote extensive sections of SCIL Users Guide, Language Reference and Library Reference Manuals, as well as other technical documents and specifications.
- Electronics** Designed digital circuits. Experience with PAL programming and circuit trouble shooting.
- Other** Instrument rated private pilot. Emergency Medical Technician. National Ski Patrol.

## EDUCATION

Siena College, Loudonville, New York  
BS - Computer Science