



Enterprise Application Developer

## **Charles Edward Herring BS(Physics), MS(Computer Science), PhD(Computer Science)**

Charles has over twenty five years experience in the Information and Communications Technology (ICT) industry. His experience ranges from commercial systems development, software development management, strategic ICT consulting, and basic research.

He is currently Chief Cyberologist for *the PYXIS Innovation Inc* (Kingston, Ontario) where he contributes to the company's strategic vision, has co-authored several successful proposals, and develops software. *the PYXIS Innovation Inc* is developing a new Earth mapping system that provides integration on demand of geo-referenced data sources. The system can provide Internet Protocol version 6 with a geospatial reference model and an Internet Engineering Task Force Request for Comment is being developed in collaboration with CISCO.

Dr Herring is a founder and past president of the Gold Coast Microsoft User Group. He is a practicing programmer fluent in a wide range of languages. He specializes in Microsoft technology and the .NET family of systems. He is an independent software developer and consultant. For example, he recently developed a system called Display Server that permits scheduling and display of multimedia content on networked computers for use in applications such as malls and airports. Other projects recently completed include an audio processing system for ringtone generation, a Zigbee-based wireless survey system, and a patent application for a 3G mobile application.

Migrating to Australia in 1997 he was a Senior Research Scientist at the Distributed Systems Technology Centre (DSTC) in Brisbane. There he was a consultant to Defense, Queensland Government, and to industry partners on selection and deployment of emerging technologies. He was seconded to Microsoft to design a mobile and wireless data architecture for Queensland Police.

Prior to coming to Australia he worked at the National Center for Supercomputing Applications (NCSA) at the University of Illinois. At NCSA he was laboratory manager on the Digital Library project and worked on parallel processing text indexing algorithms.

Dr Herring had a distinguished career with the US DOD where he lead numerous research projects for agencies such as the Defense Advanced Research Projects Agency (DARPA) and Defense Modeling and Simulation Office (DMSO) in the area of command and control and distributed simulation. He was commissioned an officer in the U S Army Corps of Engineers leaving with the rank of Captain.

Charles received his PhD in Computer Science from the University of Queensland where he developed the *Intelligent Control Paradigm for Adaptable and Adaptive Software Architectures*. He did a Masters Degree in Computer Science at the University of Illinois and his thesis was on microprocessor applications. He did his Bachelor of Science degree in Physics at the University of Mississippi where he taught introduction to laboratory practice and was a laboratory technician working in acoustic cavitation for the Office of Naval Research.

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