

Summary:

Alfred Richardson is Vice President of R&R System Solutions. He was previously the Chief Technical Officer of Datawave International and instrumental in the merger of Datawave International with R&R System Solutions. He has over thirty years of increasing management responsibility in engineering, product management, manufacturing, and quality. He has successfully managed numerous multi million dollar programs with a record of getting it done, on time and on budget. Al has been directly responsible for the functional activities of cable design, development, manufacture, and test & evaluation to the AT&T / General Dynamics fiber optic programs. He received a US patent for optical fiber fabrication and is the author of an undersea cable deployment handbook. He has also been responsible for forward looking work that culminated in one of the worlds smallest powered undersea fiber optic cable system. Al is a recognized "Subject Matter Expert" in undersea fiber optic cables. He is certified in CMMI and 6-sigma trained.

Experience:

May 2011 – Present **Vice President R&R System Solutions.** Duties include all oversight of engineering, project management programs and operational face with clients.

January 2005 – May, 2011 **Chief Technical Officer, Datawave International LLC (formerly International Technologies Resources – LLC).** Responsible for all Engineering, Project Management and Operations.

June 1989- January 2005, **Department Head, Director, Executive Director, Senior Manager,** AT&T, Lucent, General Dynamics Advanced Information Systems, (GDAIS). Directly responsible for the functional and product management activities of physical, mechanical, undersea design, and test and evaluation for various Advanced Technology Systems development programs.

Management and Technical Activities:

- ◆ Problem solving team leader in fiber optic cables, connectors, and junctions.
- ◆ Managed large & small programs across several functional organizations and geographical locations.
- ◆ Managed manufacturing organizations from model shops to full production.
- ◆ Core team member and engineering lead on a commercial undersea telecommunications project.
- ◆ Proposal evaluator for Physical / Mechanical / Deployment design functions.
- ◆ Trained in the AT&T Business Case Process and AT&T & Government Program Management.
- ◆ Established as technical liaison with several major "vendors," both domestic and foreign.
- ◆ Recognized "Subject Matter Expert" in undersea fiber optic cables.

Quality Activities:

- ◆ CMMI and 6-sigma trained
- ◆ Well versed in ISO, Baldrige, and other criteria.

*December 1983 – June 1989, **Technical Manager**, Federal Systems Business Unit, Lightwave Cable and Exploratory Cable Groups.*

- ◆ Directly responsible for the functional activities of cable design, development, manufacture, and test & evaluation to Federal Systems fiber optic programs.
- ◆ Responsible for forward looking work that culminated in one of the worlds smallest powered undersea fiber optic cable systems.
- ◆ Managed cost and schedule for multi-million dollar programs.
- ◆ **Granted US Patent: *Method for Fabricating An Optical Fiber Cable*, Patent Number 4,484,963 Nov 27, 1984**
- ◆ Managed the development of an outside vendor into a major US contributor in small fiber optic cables.

*March 1973 – December 1983, **Member of Technical Staff**, Submarine Systems Business Unit, Undersea Cable Department, Bell Labs,*

- ◆ Designed cable laying equipment for the AT&T ship, C.S. Long Lines
- ◆ Published “Submarine Cable Mechanics and Recommended Laying Procedures”
- ◆ Developed original undersea fiber optic manufacturing process for the first AT&T trans-oceanic cables.
- ◆ Managed the development of the initial fiber optic cable designs.
- ◆ Managed the first Submarine Lightwave Sea Trial.

Education:

Ph.D. Courses in Industrial Engineering, Rutgers University, 1973 - 1976

M.S. Aerospace Engineering, University of Missouri at Rolla, 1973

B.S. Aerospace Engineering, University of Missouri at Rolla, 1971

Professional Development Courses:

Darden School of Business – Managing Critical Resources

Darden School of Business – Leadership for Extraordinary Performance

Practicing Project Management – A simulation for Managers

Advance Project Management and Project Leadership

The AT&T Business Case Process: An Executive Overview

AT&T / FSAT / ATS Product Realization Process

Making Quality Happen – Upper Management’s Role

CMMI, (Capability Maturity Model Integration) SCAMPI, (Standard CMMI Appraisal

Method for Process Improvement) trained in 2003

Executive 6 Sigma Green Belt trained in 2002

Recently held DOD TS and Single Scope Background Investigation clearances