

James E. Murray, Jr.

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Objective: Return to communications and information research and development or return to instructing technical material.

Professional Background Overview:

Engineered and managed programs and products supporting the technical research and development for the U. S. Army Communications and Electronic Command, Fort Monmouth, New Jersey. The research focused on Command and Control capabilities specific to information technology and communications. Prior experience includes teaching high school, instructing technical courses in optics, electro optics, electronic fundamentals, electronic equipment repair, communications system operations and system maintenance.

Specific projects and tasks included:

- **Managing and assisted in developing models and simulation systems as required for:**
 - Military Operations in Urbanized Terrain (MOUT).
 - Characterization of the tactical communications propagation in specified environments.
 - War Simulations (WARSIM).
 - Internet Attack Simulator.
 - Network communication models.

- **Engineered and managed special interest projects and programs:**
 - Small Business Innovative Research (SBIR) project and proposals.
 - Metrics for command and control modeling and simulation.
 - C4 Reference Object Model (CROM).
 - Research for Battlefield Management Language.
 - Generation of threat augmentation algorithms recognition.
 - Data warehouse replenishment models and simulations.

- **Engineered, tested and managed product configuration for the development of communications software:**
 - Specific components developed by the Army for the Defense Information Common Operating Environment (DII-COE) were:
 - Communications.
 - Alerts.
 - Common Message Processor (CMP - a message parser).
 - Multimedia and collaboration.
 - Managed quality control by performing and assuring:
 - Software testing was complete and accurate
 - Component Documentation met requirements and was up to date.
 - Assisted in program and product compliance testing for DII COE.
 - Developed criteria for Y2K compliance.

- **Tested and assisted in the development of programs to include:**
 - Tested the capabilities of Combat Service Support Control System (CSSCS) (On site at TRW Carson, CA and later Lockheed Martin).
 - Tested, test witnessed Advanced High Frequency Aircraft Communication System. ARC 220 (On site at Rockwell, Cedar Rapids, Iowa).
 - Supervised the official maintenance demonstration on the ARC 220.
 - Tested early versions of the Army's Maneuver Control System (MCS).
 - Managed and assisted in the development of Security strategy for early states of Joint Computer Aided Logistics System (JCALS).

- **Instructed, developed courses in electronics and electro optics: (1981-1985) Fort Monmouth, NJ**
 - Taught Optics and Electro optics to military, government and government contractors.
 - Taught optical tooling to military, government and government contractors.
 - Taught fundamentals of electronics, transistor theory, and digital computers concepts to military, government and government contractors.
 - Assisted in the development of early computer databases (using Altair 8800).

- **Instructed, developed electronics and electronic systems courses: (1974-1981 Fort Gordon, GA)**
 - Taught basic and advanced electronics to US Military, US Civilians and foreign Military, coursed included:
 - Microwave systems repair (communications).
 - Encryption equipment operation and repair.
 - Multiplexing (digital and analog) equipment repair.
 - Taught methods for inspection and performance requirements for fixed stations.
 - Taught signal officers basic course.

- **Taught public high school teacher, developed lesson plans and developed curriculum as appropriate (1969-1974)**
 - Taught high school at Harrison Central high school, Gulfport, MS 1971-1974
 - Taught high school algebra, business mathematics and general mathematics.
 - Taught high school physics, science, aerospace science
 - Taught high school at Lyman, Longwood, Florida 1969-1970
 - High school algebra.
 - Taught high school general mathematics.

- **Additional experience**
 - Aircraft Pilot
 - Commercial pilot- single engine land and sea, multiengine land.
 - Flight Instructor-single engine Instrument.
 - Ground Instructor-advanced Instrument.
 - Amateur Radio Operator
 - General class (non-restricted).

- **Formal Education**
 - Post graduate courses, completed course requirements for Ph.D. In information systems. (Nova Southeastern University).
 - Master of Science (Management Information Systems) Pace University, 1991-1996.
 - Diploma (Software Engineering), New York University, 1984-1989.
 - Bachelor of Science (Delta State University), 1964-1969.

- **Technical Education**
 - Electronic Equipment repair and operations on various microwave radios, multiplexers and encryption devices, Fort Gordon, Georgia (1976).
 - Completed US Army Intercept School, Fort Devens MA 1961.
 - Completed IEEE courses in Networking, Java and other programming languages.
 - C and Pascal computer programming languages (Brookdale Community College).

- **Technical and office Skills**
 - Familiar with and user of Microsoft Word, Excel, PowerPoint, Access, FrontPage, MS Project and VBA programming. Familiar with AutoCAD and Dreamweaver MX.

- **Verbal skills**
 - Speaking, lecturing, instructing, product demonstrating technical products and concepts.
 - Facilitating the Consideration of Others program.
 - More than 10 years of teaching experience.
 - **Language skills:**
 - Mandarin Chinese (3 years of study,
 - Spanish (1 year college),
 - German (1 year college),
 - Italian (self study – presently learning).

- **Preferred location: (not required by applicant)**
 - Prefer-southern or eastern coastal area of the United States.
 - Europe-either England, Italy, Germany or Spain.
 - Asia either Taiwan or Japan.

- **Security Clearance**
 - Secret –(current when leaving the government - January 2003).
 - Top Secret (not current)