

**November 2017**

## **Resume**

**George T. Ligler**  
Proprietor, GTL ASSOCIATES  
Member, U.S. National Academy of Engineering  
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### Education

**Oxford University**, Oxford, England  
M.Sc., Computer Science, 1973  
D. Phil., Computer Science, 1975  
(Rhodes Scholarship, Woodrow Wilson Fellow)

**Furman University**, Greenville, South Carolina  
B.S., Mathematics, 1971  
*Summa Cum Laude*

### Experience

December 1988 - Present: GTL ASSOCIATES  
Potomac, Maryland and Fuquay Varina, North  
Carolina

#### **Proprietor**

Established consulting firm in telecommunications, computer system and hardware/software engineering, and information management. Systems integration/engineering and product management services provided to forty-two clients in the United States, Europe and Asia. Assignments have included telecommunications network design, product and service definition and management, consulting on major program management and the systems integration process, applications systems engineering, business process improvement, competitive analysis, red teaming of major proposals, representation of clients in international fora, support of patent licensing discussions, participation in litigation as a consulting expert and/or expert witness, and new business venture planning.

## Experience

August 2007 - November 2007: PROJECT MANAGEMENT  
ENTERPRISES, INC., Bethesda, Maryland

### **Senior Consultant**

Subject matter expert on a part-time employee basis to support the Federal Aviation Administration's implementation of Automatic Dependent Surveillance-Broadcast (ADS-B) as a component of the Next Generation Air Transportation System.

December 1984 - December 1988: COMPUTER SCIENCE  
CORPORATION, Falls Church, Virginia

**Vice President, Systems Group**, November 1987 - December 1988

Assignments on major program acquisition efforts within Systems Group, CSC's \$750M/year Government business. Areas of involvement included pre-award project team preparation, proposal review and assistance, subcontractor selection and management, competitive analysis, and business acquisition process review.

**Vice President & Executive Director, Consolidated Data  
Network**, Systems Division, October 1986 - November 1987

Program Office responsibility for a \$282 million, 8-year effort to provide, operate, and maintain packet-switched data network for the U.S. Treasury Department, with AT&T and BBN as major subcontractors. Put in place a network design and implementation infrastructure that achieved peak cutover rates of over 20 network locations per working day, enabling customer to transition to new expanded enforcement data system without major delay. Reduced CSC cost per site cutover by over 20%. Established material planning methodology (MRPII) to improve inventory management. Laid the groundwork for resolution of several important contractual issues. Recruited and developed successor program manager.

## Experience

**Vice President, Communications and Controls Products, Systems Division, December 1984 - October 1986**

Responsible for a \$12M/year business area engaged in the supply of Energy Management and Control Systems (EMCS) and communications subsystems for urban rapid transit systems. Expanded EMCS business from Tri-Service applications to commercial arena and made that business profitable. Responsible for the development of selected communication security products as value-added options for CSC's systems integration thrust.

March 1982 - December 1984. AYDIN CORPORATION, Fort Washington, Pennsylvania

**President, Aydin Controls Division, March 1982 -December 1984.**

**Vice President, Aydin Corporation, February 1983 - December 1984.**

General management responsibility for a 375-person, fully-integrated Division with annual sales of \$27M of computer graphics equipment. Product lines in color raster scan display generators, high resolution monitors, and turnkey CAD/CAM systems. Market areas included process control, utilities, defense, and petrochemical resource exploration. Division growth 1981-1984 of approximately 45%, outperforming most graphics terminal competitors. Significant operational improvements boosted margins for investment in sales, marketing, and product development.

April 1980 - March 1982. BURROUGHS CORPORATION, Paoli, Pennsylvania.

**Deputy Manager, Great Valley Labs, April 1980 - January 1981.**

**Deputy General Manager and Director of Engineering, Special Systems Division, Federal and Special Systems Group, January 1981 to March 1982**

## Experience

Chief technical executive for Special Systems Division precursor. Later responsible for 400 research and engineering personnel engaged in the development of primarily command/control/ communications and secure systems. Research component of organization executing projects in diverse areas of computer science and engineering, including distributed processing, local area networks, software tools/engineering, VLSIC design, and machine intelligence. Remaining activities matrixed into Division programs for customers including NATO, NSA, Navy, Army, and FAA. Assist with general management of a \$50M marketing, engineering, and manufacturing operation.

September 1976 - April 1980. TEXAS INSTRUMENTS,  
Dallas, Texas.

### **Project Manager, Research Manager.**

Developed software products (e.g., compilers, programming tools) which became sources of TI revenue. Built an applied research and development activity of 15-20 persons with diverse program elements in computer systems and software engineering. Chaired a 25-member corporate-wide technical working group on advanced computer architectures; member of corporate computer science thrust team.

September 1975 - September 1976. UNIVERSITY OF  
TEXAS AT SAN ANTONIO, San Antonio, Texas.

### **Assistant Professor of Computer Science**

Taught graduate/undergraduate courses in programming languages and analysis of algorithms. Research and publication in software engineering and programming language design. Chairman, Division Faculty Recruiting Committee.

## Professional Activities and Awards

Author or co-author of twenty-one technical papers in the areas of software engineering, telecommunications, computer and computer systems architecture, navigation and information systems for aviation, and computer graphics. Additionally, co-author of five reports issued by the U.S. National Research Council.

Member, Association of American Rhodes Scholars, ACM, ION. Life Senior Member, IEEE.

Numerous invited lectures, panels, and program committee memberships.

Adjunct faculty member (two dissertation committees), Union Institute, 1989-1993.

Inducted into Furman University's Alumni Hall of Fame, 1979.

Member of National Research Council's Committee on Review of the Information Systems Modernization of the Internal Revenue Service, 1990-1995.

Member of Technical Review Committee for Georgia Institute of Technology's Futurenet, which formed the backbone for telecommunications within the 1996 Olympic Village, 1994-1996.

Member, Program Management Committee, RTCA (Aviation Standards Federal Advisory Committee), August 2000 to present. Co-Chair of RTCA's Special Committee on Satellite Navigation, June 2005 to present. Chair of RTCA's Integration and Coordination Committee, April 2009 - present. Founding Co-Chair of RTCA's Special Committee on Unmanned Aircraft Systems, May 2013-December 2015.

Chair, Co-Chair or Facilitator of RTCA Standards Working Groups that developed six aviation standards, 1992-2009. Rapporteur for development of International Civil Aviation Organization Standards and Recommended Practices for the Universal Access Transceiver (2002-2005).

Member of National Research Council's Panel on Research on Future Census Methods, December 2000 to March 2004.

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