

## Nicholas Thomas

### Significant Experience

Prior to co-founding Utility Telecom in 1994, Mr. Thomas had more than 15 years of telecommunications system design experience with high speed fiber optic, microwave, mobile radio, paging, telemetry and data networks. He has either been involved or personally responsible for the preparation of six corporate telecom strategic plans and has extensive field engineering and project management experience. Mr. Thomas brings a blend of technical and managerial experience to the consulting role including:

- **Strategic Planning** - Developed strategic telecommunications plans for several Fortune 500 companies including Xerox Corporation, Pacific Gas and Electric and Public Service Co. of Colorado. At Xerox, his combination baseband /broadband media plan increased network functionality while simultaneously reducing telecom costs by \$500,000 annually.

At PG&E, his plan was used as a base document for expansion of their fiber network connecting the San Francisco, Sacramento and Central regions of California together with over 800 miles of fiber (a \$70 million project). He refined the PSCo strategic plan linking it directly to the corporate planning and budgeting process.

- **Technical Design** - Mr. Thomas has significant design experience with all forms of telecom media but is particularly strong in data networking and transmission systems. He has designed LANs, bridging, routing and hub strategies and has directed or personally performed the design and acquisition of more than \$200 million dollars worth of networking equipment which is in service today! Holding positions ranging from engineer to manager to vendor technical support he understands all aspects of telecom system design and provisioning.

- **Feasibility Studies** - Every professional position held by Mr. Thomas has required in depth evaluation of alternatives and the selling of ideas and projects to management or customers. His success at doing this and communicating with management and customers led to his consistent advances to higher management positions.

- **Management Perspective** - Mr. Thomas has held project manager, team lead, supervisory and department level management positions all directly related to telecommunications in a wide variety of businesses. He has successfully prepared and performed all types of executive presentations with senior corporate management.

### Experience Prior to Utility Telecom

- **Engineering and Programs Manager**, Information Network Services Division  
Public Service Co. of Colorado 1992-1994  
Mr. Thomas directed a staff of 35-40 personnel responsible for the design, engineering and implementation of PSCo's telecom projects. He managed an annual construction budget of \$8-10 million dollars supporting the voice, data, video and computer local and wide area network needs of PSCo.

- **Engineering Consultant** 1991-1992  
Independent consultant addressing a wide variety of data communications and telecommunications services working for utility and high technology companies. Major projects included planning, engineering and design of microwave, fiber optic, mobile radio networks and standards development.

• **Manager, Systems Engineering** Raycom Systems 1988-1991  
Mr. Thomas managed the systems engineering department of this fiber optic networking company including all their field and applications engineers. This department provided engineering support for Raycom's fiber optic and data communications products for all domestic and international accounts. This position reported directly to the Vice President of System Engineering.

• **Western Area Project Engineer** NEC America 1986-1988  
Provided engineering support for NEC's fiber optic and carrier transmission products in seven Rocky Mountain states. Supported sales staff and customers with technical support, system design and managed large NEC projects. Recognized as an expert and corporate resource on T1, channel bank, SONET and DS-3 equipment and applications.

• **Project Engineering Manager** Pacific Gas and Electric 1983-1986  
In this position, Mr. Thomas led a team responsible for the planning and design of the expansion of PG&E's private telecom system. Duties included budgeting, detailed engineering design and implementation of sophisticated segments of the telecom network. In addition to the strategic planning accomplishments cited above, his assignments included microwave, mobile radio trunking, control and telemetry systems and the corporate data network.

• **Engineering Consultant** Xerox Corporation 1982  
Mr. Thomas gained valuable experience working for the Data Processing and Telecom Division. He designed a wide area network and a prepared a long range plan for their digital network.

• **Project Engineer** Public Service Co. of Colorado 1979-1981  
His responsibilities included system design and project management of private microwave communication facilities. Duties included site layout, path analysis, detailed engineering and supervision of final testing and alignment of RF systems. Other responsibilities included design of mobile radio and telemetry systems.

**Current Position** Vice President and Principal Associate, Utility Telecom Consulting Group

**Education** BS Electrical Engineering, University of Colorado, 1978  
MS Telecommunications, University of Colorado, Thesis Pending  
Various manufacturer's technical training programs

**Other**

- Licenses:  
FCC General Class Amateur Radio Operator
  
- Professional Organizations:  
Institute of Electrical and Electronic Engineers