EXPERIENCE:

12/08-Present: Director, Center for Entrepreneurial Growth (CEG), Technology 2020

Oak Ridge, Tennessee

Managing six CEG programs that support entrepreneurial activities in East Tennessee, Southeast Kentucky, Western North Carolina and other regions. These programs provide mentoring and coaching to startups, primarily in the seed and early stage of growth.

8/05-10/08: President & CEO, Sunlight Direct, Inc.

Oak Ridge, Tennessee

Commercialization and Business Development of Hybrid Solar Lighting and Concentrated Photovoltaic Systems. Oversight and guidance of R&D, production and installation for ORNL licensed technology. Responsible for Sales and Marketing development, day to day operations, including financial management and strategic direction. Took the company from just after inception through \$1MM in sales this year.

6/04-6/05: General Manager – NetLearning – Thomson Delmar Learning

Knoxville, Tennessee

Responsible for integration of NetLearning resources and product capacity into acquiring business, Thomson Delmar Learning. Created and executed an acquisition plan for major elements of NetLearning business operation to transition to parent corporation.

8/97-6/04: President and Chief Executive Officer – NetLearning, Inc.

Knoxville, Tennessee

Responsible for corporate planning and execution. Created the business model within Consultec Scientific and executed the incorporation of the business. Established initial product specifications, client partnerships and funding. Formulated regional sales and marketing plan and scaled the plan to a national model. Grew sales from \$0 to over \$5MM, capturing 38% of the Acute Care Market for Learning Management Systems. Returned 13x to initial seed investors when the company sold to Thomson Corporation in June, 2004.

6/97-4/00: Member, Board of Directors – Sarcon Microsystems, Inc.

Knoxville, Tennessee

Represent the interests of Consultec Scientific shareholders.

4/95-7/97: President and Chief Executive Officer - Consultec Scientific, Inc.

Knoxville, Tennessee

Responsible for corporate planning and execution. Developed a business plan to commercialize fundamental technologies created or licensed by Consultec. Focused company resources on four technologies and executed a plan to spin-off separate corporate entities. Three of these businesses are going concerns, including NetLearning. Increased shareholder value through stock dividends granted for each of these businesses.

1/94-Present: Corporate Secretary/Treasurer

Member, Board of Directors - Consultec Scientific, Inc.

Knoxville, Tennessee

1/94-4/95: Vice President and Chief Operating Officer - Consultec Scientific, Inc.

Knoxville, Tennessee

Principal Investigator for project entitled "Simple Waste Amelioration Processor". This system codified a learning algorithm for the encapsulation of waste stream knowledge from experts. Project Manager for Small Business Innovation Research grant from the National Institute of Mental Health for the prediction and display of large molecules. This system is a cross-platform development deployed under the Windows 3.1, Macintosh and UNIX environments. Responsibilities as Vice President include financial operations management, contract and indirect rate negotiations with the government, equipment oversight and administration, as well as general operations management.

1/91-12/93: Research Scientist - Consultec Scientific, Inc.

Knoxville, Tennessee

Designed, developed and instructed a Graphical User Interface (GUI) training curriculum for Cincom Systems, Inc. of Cincinnati, Ohio. This effort trained software designers and developers versed in structured programming, how to transition to the new Object-Oriented paradigm using IBM PCs in a client/server architecture. Managed Phase I Small Business Innovation Research grant for porting Iris Graphics Workstation software to generic UNIX-based platforms, as well as the IBM PC and Macintosh. This software predicted and displayed the interactions of macromolecules (proteins). Designed and developed simulation software under Microsoft Windows for Health Physics training (patent pending). Designed and developed expert systems for avionics repair and testing. Two of these systems are now commercially available.

8/90-12/90: Consulting Analyst - Software Synergy Inc.

Cincinnati, Ohio

Managed large software development project at the Mound Laboratory in Miamisburg, Ohio. Responsible for on-site coordination of off-site/uncleared resources and development of a module for handling radiation work permits. Created a low-level interface for translation of IBM mainframe systems to UNIX.

9/89-7/90: Instructor - UT Evening School

Responsible for course content and instruction in the FORTRAN Computer Programming Language. Emphasis is placed on structured programming techniques.

4/88-7/90: Martin Marietta Energy Systems - Manager, AI Lab

Center for Intelligent Systems

Evaluated CD-ROM technology in a secure environment for the Joint Chiefs of Staff. Researched Optical Storage Media as it applies to data intensive financial systems and data gathering from remote sensor sites. Developed proof-of-concept expert system prototype for Naval Inactive Fleet accounting. Tested and Evaluated tools and techniques pertaining to expert systems, including benchmark algorithm creation and development. Designed statistical analysis models for use in Financial forecasting applications.

12/86-3/88: Oak Ridge National Lab/UTK - Systems Analyst

Researched artificial Intelligence applications for the Navy and Air Force. Developed budget preparation and analysis systems for micro-computer applications.

9/86 - 12/86: University of Tennessee - Student Assistant

Graded Fortran computer programs and aided students in system and programming orientation. Selection to position approved by former instructors.

8/80 - 9/85: Tennessee Valley Authority (TVA)

Engineering Associate (Knoxville Office)

(1982 to 1985)

Developed personal computer programs for project control. Implemented a computerized data base for adverse trend analysis, supervised personnel aides in data input and implemented all programming changes. Researched adverse trends for identification and correction.

Engineering Aide (Watts Bar Nuclear Plant)

(1980 to 1982)

Performed quality control inspections of class 1E electrical installations. Coordinated all heat trace installations for the intake pumping station. Performed cable trace verification in conjunction with Nuclear Regulatory inspections.

AWARDS:

Outstanding Entrepreneur of the Year: Innovation Valley Technology Business Association Navigator Award: October 2007

Federal Laboratory Consortium: Excellence in Technology Transfer – 2006

R&D 100 Award: Hybrid Solar Lighting - 2006

EDUCATION:

Bachelor of Science in Computer Science

University of Tennessee, Knoxville

Graduated: March, 1987

Projects included an assembly language emulator to run 68000 code on an 8086, a graphic paint package written to run on a Tektronics 4025 terminal, a 4-5 b-tree for airline reservations, and a compiler for VAX/VMS operating system(e.g. 1 pass, parser, object code generator and executable).

Associate of Science in Electrical Engineering

Chattanooga State Technical Community College

Chattanooga, Tennessee Graduated: August, 1980

Projects included a wireless transmitter/receiver and a breadboard computer.