

Gary B. Davis

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Core Capabilities

- Designing leading edge telecommunication fiber optic networks
- Network modeling for fiber optic routes, cost matrices, network reliability/availability calculations
- Spreadsheets, Presentations, CAD and video animation
- Lab/Field Testing – test case development/execution and hands-on lab/field experience

Experience

Adva Optical Networking – Texas (4 Years)

Network Consultant (CWDM/DWDM and Ethernet)

2006 – Present

Provide network CWDM/DWDM design support to the Systems Engineering community for SONET, Ethernet and SANs services. Participate in feature/functionality selection for new releases. Train engineers on network planning software and develop/present technical presentations.

Optovia – Massachusetts/Texas

Director of Network Support Services (DWDM Long Haul/Metro Transport)

2004 – 2006

Supported ultra long haul DWDM network deployments. Responsibilities include network modeling, site selection, preparing capital/operational costs, and network reliability/availability calculations. Coordinated fiber plant characterization, lab evaluations, field trials, demos, initial deployments and customer training. Participated in contract negotiations and marking preparations.

Ceterus Networks – Allen, Texas (2 Years)

Senior Lab Engineer

2002 – 2004

Developed and executed test methodology for bonded Ethernet service equipment transported over DS1/E1 and SONET/SDH. Worked closely with software, hardware and FPGA development groups to verify new code. Responsible for developing test case scenarios, test equipment and lab systems layout.

Nortel Networks (Qtera Acquisition) – Richardson, Texas (3 Years)

Account Development Manager

1999 – 2002

Managed a \$400M customer account for next generation ultra long haul 10Gb/s optical transport systems. Responsible for the system level design and field implementation.

MCI Telecommunications - Richardson, Texas (15 Years)

Network Technology Development - Senior Engineer

1996 - 1999

Evaluated leading edge optical technology and startup companies for future generation optical networks. Extensive work with SONET, optical switches, optical amplifiers, wave-division-multiplexing and high-speed transport networks. Implemented technology trials using experimental optical technology. Participated in US T1X1.5 and ITU SG15 standards bodies as a technical expert representative.

DXC Engineering Vendor Technical Manager

1993 - 1996

Developed new feature/functionality requirements for MCI's digital cross-connect systems. Wrote technical specifications, test requirements and managed first time field implementations.

Lightwave Engineering Project Engineer

1984 - 1993

Developed implementation standards for MCI's Fiber Optic Transmission Network. Engineered over 50 capitalized construction projects for asynchronous and SONET fiber optic equipment. Project Engineer for the first installation of SONET, WDM filters, and optical switches in MCI's network.

Education

Bachelor of Science in Electronics Engineering Technology
Presidential Honor Society, President's and Dean's List, 3.47 GPA

DeVry University
June 1986

Technical Publications

- ECOC 2005 – Triple 640km Cascade of Tuneable All Optical Regenerators in a 10Gb/s WDM Field Trial Over 160km Per Span Distance in MCI's Metro Network
- OFC-99; PD4-1 (Post Deadline) – 2410km All-Optical Network Field Trial with 10GB/s DWDM Transmission (Acknowledgment for help in preparing and deploying field trial equipment)
- OFC-98; TuE3 – Optical Cross-Connect System Technology Trial (Presenter)
- OFC-98; ThD3 – Optical Cross-Connect Systems for Restoration of Backbone Fiber Networks
- OFC-98; PD19 (Post Deadline) – 4xSONET OC-192 Field Installed Dispersion Managed Soliton System Over 450 km of Standard Fiber In The 1550 nm Erbium Band

Awards

Above and Beyond Award – Ceterus Networks in 2004
Excellence In Service (EIS) - MCI Telecommunications in 1992
Commendation Award - MCI Telecommunications in 1989

United States Patents

6,798,991; *Optical Communication Systems, Optical Communications System Terminal Facilities, Optical Communication Methods, And Methods of Communicating Within An Optical Network*; September 2004

6,377,374; *Method Apparatus And Computer Program Product For Optical Network Restoration*; April 23, 2002

6,215,565; *Method Of And System For Diagnosing Optical System Failures*; April 10, 2001

6,111,672; *Method, Apparatus, And Computer Program Product For Optical Network Restoration*; August 29, 2000

6,061,482; *Channel Layered Optical Cross-Connect Restoration System*; May 9, 2000

5,930,017; *Method And System For Maintaining An Optical Path*; July 27, 1999

Formal Speaking Engagements

November 1999; IIR Bandwidth Management Conference, Dallas, Texas; *Deploying Long Haul WSM Optical Transport for IP Routers (Speaker and Session Chair)*

July 1999; IIR WDM Congress, Cannes, France; *Evaluating The Key Technologies & Network Architecture Required To Achieve High-Speed Optical Networking*

June 1999; IEC TecForum/SuperCom99, Atlanta, Georgia; *The Road To Optical Networking*

April 1999; IEC All-Optical Network ConForum, Orlando, Florida; *Emerging Technology Applications In The All-optical Network*

February 1999; OFC-99, San Diego, California; Panel Session – *The Optical Switching Technology and Its Applications*

June 1998; IIR WDM Congress, Cannes, France; *Overcoming The Technical & Logistical Challenges Of Incorporating Optical Cross-Connects Into Existing Networks* (Received highest speaker rating of entire conference for technical content)

February 1998; OFC-98; San Jose, California; TuE3 – *Optical Cross-Connect Systems Technology Trial*