

PHILIP W. SHEW, JR.
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EMPLOYMENT

04/06- Communications Engineer
11/07 Comforce Technical Services, Inc.
Responsibilities: Electronic communication system engineering

10/88- Senior Communications Engineer
01/06 Public Service Company of New Mexico
Responsibilities: Electronic communication system engineering

09/79- Supervisor, Communications Engineering
10/88 Public Service Company of New Mexico
Responsibilities: Supervise electronic communications engineering group

01/73- Communications Engineer
09/79 Public Service Company of New Mexico
Responsibilities: Electronic communication system engineering

09/70- Electrical Engineer
01/73 Public Service Company of Colorado
Responsibilities: Worked in electronic communications section

05/68- Junior Officer
09/70 United States Navy, USS Long Beach
Responsibilities: Fire control officer, Talos Missile battery

05/67- Junior Electronic Design Engineer
05/68 LTV Electrosystems, Inc.
Responsibilities: Junior engineer in RF design group

09/61- Student Trainee
05/67 Department of Army, White Sands Missile Range, New Mexico
Responsibilities: Technician in landline instrumentation group

EDUCATION

1961- New Mexico State University; Degree: B.S.E.E.
1967 Earned 100% of expenses as a student-trainee

1967- Southern Methodist University
1968- Graduate level course: Transform Analysis
Various Company-sponsored courses

1969- University of California Berkley
1970- Correspondence course: Fundamentals of Engineering

1970- University of Colorado (Denver)
1973 Engineering Economics, Fundamentals of Management

1973- Public Service Company of New Mexico
2006 Various company and manufacturer sponsored classes;
Digital Microwave Design
Project Management
SONET Engineering fundamentals
TAP Engineering Seminars
Design considerations of fiber optic communication systems

For Amplification, Please see following

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Employment Highlights

04/06-11/07 Comforce Technical Services

Contract communications engineer in Public Service Company of New Mexico Telecommunications Group. Performed design, procurement, licensing, and documentation of various projects as assigned. Peer reviewed communication projects engineered by others. Analyzed and corrected network timing issues. Provided field assistance as necessary. Trained replacement engineer.

10/88-01/06 Public Service Company of New Mexico

Senior communications engineer. Responsible for planning, budgeting, design, procurement, documentation and implementation of operational communication systems. Projects included installation of approximately 50 miles of optical ground wire to support the company's first SONET loop, conversion of microwave and multiplex systems from analog to digital, successful installation of numerous microwave paths, design and implementation of the communications required to support a system-wide undervoltage load shedding scheme, and conversion of the company two-way radio system from simplex low band to 800 MHz trunking. Subject matter expert for PNM's Y2K effort.

09/79-10/88 Public Service Company of New Mexico

Supervisor of Communications Engineering in System Engineering Department. Organized and staffed the communications engineering group. Responsible for planning, justification, budgeting, and final implementation of company-wide communication systems. Supervised the design and installation of company's first fiber optic communications system. Other fiber projects include an analog extension of a microwave baseband and a 45 Mbs single mode administrative system. Continued expansion and upgrade of the analog microwave system. Configurations included on-line protection, hot standby, space diversity, and loop systems. Chairman of communications standards committee.

01/73-09/79 Public Service Company of New Mexico

Communications engineer. Responsible for engineering, design, procurement, licensing, and documentation of communications systems including microwave, powerline carrier, mobile radio, multi-pair cable, and specialized telephone systems. Several multi-hop microwave systems and more than a dozen individual paths were successfully installed and interfaced to state of the art multiplex systems. Channel applications included tie trunks, off premise extensions, ringdown lines, data, protective relaying, and video conferencing. Telephone experience included installation of a 128 line PBX and a 48 line dispatch system, as well as the associated interface with Bell provided circuits and equipment.

09/70-01/73 Public Service Company of Colorado

Engineer in Training/Communications Engineer. Completed comprehensive one year training program covering power plant engineering, substation design, system planning, distribution, protection and utility operations before being assigned to the communications section of the Electrical Engineering Division. Provided design, procurement and documentation of powerline carrier systems, tone applications for protective relaying, CCTV for security, and mobile radio base station site location.

05/68-09/70 United States Navy

Junior Officer. Responsible for operational readiness of the Talos guided missile fire control system aboard the USS Long Beach. Supervised a division of enlisted men as well as standing assigned watches while underway.

05/67-05/68 LTV Electrosystems, Inc.

Junior Electronic Design Engineer. Worked on a VHF voltage controlled oscillator while awaiting security clearance. Once cleared, completed design of a VHF power leveling loop, developed prototype, and supervised initial production.

08/61-05/67

Student-Trainee. Employed as a student-trainee on alternating six month work/study periods. Performed technician level work in a land line instrumentation group. Gained experience with hardwire and multiplex systems, recording equipment, set-up and use of test equipment, and use of various transducers.