

Patrick T. Goodyear, P.E.
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Anchorage, Alaska 99516
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CAREER OBJECTIVE: Working in telecommunications with responsibility and authority concerning technology, network architectures, network implementation, network planning and design.

WORK EXPERIENCE:

GCI Communication Corp. (Anchorage, Alaska) August 1999 - PRESENT

Manager, RF Network Engineering

Responsible for directing the efforts of the RF Network Engineering Group. Group responsibilities include engineering network growth in 129 C-Band satellite earth stations and approximately 86 Ku-Band VSAT stations. Also responsible for evaluating technical performance of Broadband satellite technologies, PCS technologies, LMDS technologies, and microwave system engineering. Responsible for engineering and deployment of CDMA, FDD, Wireless Local Loop (WLL) network and other Wireless Broadband Access technologies, as well as a packet/cell based TDMA satellite transmission technologies to support telemedicine in remote villages. Responsible for engineering of DVB based packet transmission over satellite to support Internet delivery to rural schools. Responsible for engineering IEEE 802.11 Wireless Internet Service Provider (WISP) system for rural village Internet distribution. Responsible for preparing, presenting, tracking, and reporting status on project budgets, as required by senior management, to support designated corporate goals.

GCI Communication Corp. (Anchorage, Alaska) October 1994 – August 1999

Transmission Engineer

Managing six C-band digital SCPC supporting long distance MTS and Private Line Traffic. Responsible for integrating satellite communications into Long Distance Carrier network interfacing with M12 multiplexers, DS-1/DS-0 DACS, CO Repeaters, and Echo Cancellation equipment. Engineering and pricing of Private and Common Carrier microwave network transmission facilities. Managing microwave network design deployments. Engineering and pricing of satellite transmission systems. Managing satellite transmission system deployments. Composing, reviewing and awarding Request for Proposal for GCI network monitor and control system. Managing network monitor and control system deployment. Engineering and installing AC and DC backup power systems including -48 VDC emergency battery plant, Uninterruptible Power Supply (UPS) backup AC power plants and backup generator and AC power switching systems. Engineering and deploying Personal Communications Systems (PCS) trial network. Filing of FCC applications and waivers as required by assigned projects.

Fluor Daniel, Inc. (Anchorage, Alaska) July 1993 - October 1994

Systems Engineer

Providing planning for the transition of the Federal Aviation Administration Alaska Region communications network from leased telecommunications services to a combined topology of leased and FAA owned (Alaskan NAS Interfacility Communications System, ANICS) services. Engineering of local loop connectivity designs to link remote FAA navigational aid voice and data equipment to the local ANICS terminals. Supervising individuals under a task oriented contract. Required to develop and define task orders and task implementation plans detailing the deliverables and deliverable deadlines required by the FAA from these contract personnel. Responsible for weekly and monthly tracking and reporting of deliverables status and deadline conflicts to contract headquarters (Washington, DC).

Staff Engineer

Furnishing communications and electronic engineering, and technical support for the FAA Aviation System Capital Investment Plan (CIP). Providing communications and electronic engineering, and technical support for the FAA Alaskan NAS Interfacility Communications System (ANICS). Developing AutoCAD based system for incorporating current site survey data into existing FAA drawings. Co-authoring satellite link budget analysis program used in evaluating contractor proposal data. Performing physical site surveys to determine optimal location for installation of satellite Earth Stations comprising the ANICS network.

Octagon Company, Inc. (Anchorage, Alaska)

1987-1992

Telecommunications Engineer January 1989 - February 1992

Providing management, engineering, and installation for broadcast AM, FM radio, and Television stations from the studios and studio equipment to the transmitter and antenna plants and ancillary systems to support public radio and television in Washington State and Alaska. Providing engineering and installation for FXO/FXS links via UHF radio and OPX via satellite supporting remote oil exploration. Designing and evaluating radio, point-to-point microwave and satellite networks from 150 MHz to 21 GHz. Filing of FCC applications from parts 21, 73, 74, 90, and 94. Surveying communications site quality and selection.

Engineering Aide May 1988 - September 1988

Engineering and filing FCC applications. Maintaining broadcast television and radio transmitters, antenna systems and studio equipment FM and AM radio stations, and a Low Power UHF broadcast television station. Maintaining 13 GHz microwave video link between Eagle River and Anchorage, and maintained 13 GHz audio and control links between Eagle River and Anchorage.

Electronic Technician June 1987 - September 1987

Assisting in wiring of television studio for medical training for the University of Alaska Anchorage. Modifying communications circuits as required for operation. Assisting in wiring and cleaning of broadcast radio transmitters for KENI FM and AM (Anchorage, Alaska).

Bentheimer Engineering (Anchorage, Alaska)

May 1986 - September 1986

Engineering Aide

Assisting in the design of computerized mathematical models of radial power distribution systems. Models calculated voltage drop, annual kilowatt-hour loss, and fault current (line to neutral, line to line and three phase) according to REA specifications. Responsible with presenting these models to Kodiak Electric Association's engineers.

LICENSES:

Alaska Registration, Professional Electrical Engineer

EDUCATION:

Masters of Business Administration in Telecommunications Management, Alaska Pacific University, May, 1996
Bachelor of Science - Electrical Engineering; Communications, University of Alaska - Fairbanks; December, 1988
Telcordia (Formerly Bellcore) ATM Carrier Networks Class
Subscriber Loop Signaling and Transmission - Analog Seminar by Reeve Engineers
Subscriber Loop Signaling and Transmission - Digital Seminar by Reeve Engineers

REFERENCES AVAILABLE UPON REQUEST