

Before the
Public Service Commission of Kentucky

In the matter of the informational filing of)
Intelligent Switching and Software, LLC)
For authority to operate as a reseller of)
Interexchange telephone service)
Throughout Kentucky)

05161600
0570

Intelligent Switching and Software, LLC hereby submits the following information in accordance with the provisions of Administrative Case No. 359 and its proposed tariffs in accordance with 807KAR 5:011.

1. Applicant name, address, and telephone.

Intelligent Switching and Software, LLC
1020 N.W. 163rd Drive Miami, Florida 33169
Telephone (305) 914-3363 Fax.(305) 625-8167

2. A copy of the Company's Articles of Incorporation and Kentucky C. of A.

-Included with tariff-

3. Name, address, and telephone of company contact person/customer service.

Kenneth Jacobi, Secretary
1020 N.W. 163rd Drive Miami, Florida 33169
Telephone (305) 468-1645 Fax. (305) 468-8509
kjacobi@regnumgroup.com

4. The company has not provided or collected for intrastate service in Kentucky.
5. The company doesn't seek authority to provide operator assisted service.
6. The company's proposed tariffs are attached.
7. An example bill is included with the tariff.

Wherefore, Intelligent Switching and Software, LLC requests that the Public Service Commission of the Commonwealth of Kentucky grant authority to engage in the resale of local exchange and interexchange telecommunications service to the public in accordance with applicable laws currently in effect or hereinafter enacted by the commission.

Respectfully submitted this 1st day of NOV., 2001

Intelligent Switching and Software, LLC

Kenneth Jacobi
Secretary

Verification of Applicant

State of Florida
Country of Miami Dade

I KEN JACOBI, being first duly sworn, state that I am secretary of Intelligent Switching the Applicant herein; that I have reviewed the matters set forth in the Application and the statements contained therein are true to the best of my knowledge, except as to those matters which are stated on information of belief, and as to those matters I believe them to be true.

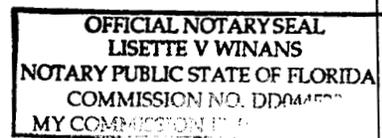
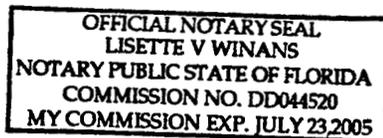
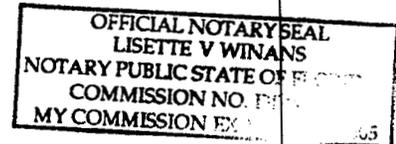
Intelligent Switching and Software, LLC

By: [Signature]
Kenneth Jacobi, Secretary

Sworn to and subscribed before me this 1st day of NOV., 2001

[Signature]
Notary Public

My Commission Expires: July 23, 2005.



COMMONWEALTH OF KENTUCKY
JOHN Y. BROWN III
SECRETARY OF STATE



APPLICATION FOR CERTIFICATE OF AUTHORITY

05270644.06

John Y. Brown III

Secretary of State

Received and Filed

08/08/2001 02:34 PM

Fee Receipt: \$90.00

Praine - L902

Pursuant to the provisions of KRS Chapter 275, the undersigned hereby applies for authority to transact business in Kentucky on behalf of the limited liability company named below and for that purpose submits the following statements:

1. The company is a limited liability company (LLC).
 a professional limited liability company (PLLC).

2. The name of the limited liability company is
Intelligent Switching and Software, LLC

3. The name of the limited liability company to be used in Kentucky is

(if "real name" is unavailable for use)

4. Florida is the state or country of organization.

5. 02/01/2001 is the date of organization and, if the limited liability company has a specific date of dissolution, the latest date upon which the limited liability company is to dissolve is Perpetual

6. The street address of the office required to be maintained in the state of formation or, if not so required, the principal office address is
1020 N.W. 163rd Drive, Miami, FL 33169

7. The names and usual business addresses of the current managers, if any, are as follows:

Name Address

Name Address
(Attach a continuation, if necessary)

8. The street address of the registered office in Kentucky is
828 Lane Allen Road; #F4; Lexington, KY 40504

and the name of the registered agent at that office is
Kentucky Lenders Assistance, Inc.

9. This application will be effective upon filing, unless a delayed effective date and/or time is specified:
upon filing
(Delayed effective date and/or time)

I certify that, as of the date of filing this application, the above-named limited liability company validly exists as a limited liability company under the laws of the jurisdiction of its formation.

[Signature]
Signature
Kevin Kiviborn
Type or Print Name & Title Member

Date: May 21, 2001

Kentucky Lenders Assistance, Inc. consent to serve as the registered agent on behalf of the limited liability company.
Type or print name of registered agent

[Signature]
Signature of Registered Agent
Patricia L. Mann, President
Type or Print Name & Title

State of Florida



Department of State

I certify the attached is a true and correct copy of Articles of Organization of INTELLIGENT SWITCHING AND SOFTWARE, LLC, a limited liability company, organized under the laws of the State of Florida, filed on February 1, 2001, as shown by the records of this office.

The document number of this company is L01000001653.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capitol, this the
Eighth day of June, 2001



CR2EO22 (1-99)

Katherine Harris

Katherine Harris
Secretary of State

State of Florida



Department of State

I certify from the records of this office that INTELLIGENT SWITCHING AND SOFTWARE, LLC, is a limited liability company organized under the laws of the State of Florida, filed on February 1, 2001.

The document number of this company is L01000001653.

I further certify that said company has paid all fees due this office through December 31, 2001, and its status is active.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capitol, this the
Eighth day of June, 2001



CR2EO22 (1-99)

Katherine Harris

Katherine Harris
Secretary of State

BRIEF BUSINESS PLAN INTELLIGENT SWITCHING & SOFTWARE, LLC

Intelligent Switching & Software will be offering the following discount international and US long distance calling services that deliver some of the best international telephone rates in the telecommunications industry, the best domestic long distance telephone rates, super discount calling cards and toll free 800/888# services.

All of these high quality long distance telephone services have been very carefully selected for value, quality, and broad appeal to the telecommunications services marketplace. We will offer the best prepaid calling cards; monthly-billed post paid calling cards, the lowest international telephone rates without switching. It's all right here! You will find that all the long distance telephone services here offer technology, which is at the forefront in the telecommunications industry, both in marketing and in Telecom services. Whether you need the lowest international telephone rates, the best US long distance telephone rates, or the best calling card telephone rates and service you have found a useful and true money saving resource!

Intelligent Switching & Software, Inc. is a long distance telephone company, offering a wide variety of communication services to the international and domestic marketplace. Intelligent Switching & Software day-to-day operation is managed by a core of highly skilled professionals, with a combined experience of 5 years in the US telecommunications industry.

Intelligent Switching & Software has various direct contracts with underlying carriers. Intelligent Switching & Software is constantly upgrading the various platforms offered to overseas and domestic customers. Each customer will be notified when a new or enriched service or feature is made available. Intelligent Switching & Software has worldwide reach to the international marketplace.

Why new phone companies? The recent Telecommunications Act has made it possible for Intelligent Switching & Software to create the kind of phone company you've always wanted for your business and your home. For the first time in the history of the telephone, you will have a choice in local telephone service.

Fifteen years ago, the break-up of AT&T brought choice to long distance. The shock waves rippled through the industry and ushered in an era of sweeping innovation and plunging phone rates. During this time the visionaries who would eventually form Intelligent Switching & Software believed that choice and open competition would eventually come to the local telephone marketplace. Today, history is repeating itself.

Long distance carriers. 1984 Divestiture begins. AT&T spins off seven local service providers and continues to sell long distance service.

Restrictions prevent long distance providers from selling local service; local service providers cannot sell long distance. 1991 the 1984 restrictions are lifted. Competition begins, allowing any company to enter the long distance marketplace. The Telecommunications Act of 1996 is passed. The final barriers to competition are removed, opening the way for Intelligent Switching & Software to offer local, long distance, and Internet service. Local Bell companies and long distance carriers must wait until 1999 to offer both local and long distance service in their "Home" markets.

The Telecommunications Act of 1996 opens the Window for INTELLIGENT SWITCHING & SOFTWARE; The Telecommunications Act of 1996 creates a new competitive environment that will benefit both consumers and business. The Federal Communications Commission and the U.S. Congress working in partnership with industry created the Telecom Act.

In February of 1996, The Telecom Act opened up local markets to competition by removing legal barriers that were prohibiting companies from entering the larger local telephone business on a nationwide basis. Formerly, local service was available only through one of the local Bell companies in a single region – in effect, a regional monopoly.

Importantly for Intelligent Switching & Software, The Telecom Act places some important limitations on local Bell companies and the big three long distance carriers. These limitations restrict them from offering both local and long distance service in their "Home" markets.

This means that your local Bell Company cannot be a full-service, single provider probably until 1999. The same is true for AT&T, MCI, and Sprint. Intelligent Switching & Software, however, bring you the convenience and savings of bundled local, long distance, and Internet service today.

During this brief window of opportunity, Intelligent Switching & Software has rolled-out a full range of telecommunications services -- all supported by a commitment to customer satisfaction that is already changing the common perception of what a phone company can be.

Intelligent Switching & Software's service, Intelligent Switching & Software Calling Card permits a person in over 100 countries to make intercontinental calls at economical US rates, instead of high local monopoly rates. The customer applies for the service by completing a sign-up form, which is then faxed or e-mailed to Intelligent Switching &

Software's order processing department. The order is processed and the customer's account is ready for use within 48 to 72 hours, weekdays. Ongoing customer support is provided

COMPANY Name's primary goal of increasing shareholder wealth will continue to lead The Company's efforts in setting objectives and developing strategies. Geographically cluster telephone and wireless markets focus on smaller markets with excellent growth potential Telephone Operations - rural and suburban markets Wireless Operations - second-tier urban, rural and suburban markets Increase market share in geographic clusters Expand products and services offerings Grow customer base. Capitalize on additional revenue opportunities from existing customers.

"Intelligent Switching & Software will deliver a level of personal service that will amaze small- and medium-sized businesses. When I call a company, I expect to speak with a real person who can handle my problem. That's a simple point that we'll deliver on. Customer care will be a primary focus for Intelligent Switching & Software." PERSON NAME. Chairman and CEO you may never think of your phone company the same way again. The reason is for the first time ever, you have a reliable alternative in local telephone service. What's more, you can now obtain local, long distance, and Internet service from a single phone company. And perhaps best of all, both of these firsts are available at lower prices and with an unprecedented level of customer satisfaction that makes it a pleasure doing business with Intelligent Switching & Software.

Tailored to the needs of small- to medium-sized businesses, Intelligent Switching & Software offers:

- * Local calling, long distance, and Internet access services from one convenient source.
- * The assistance of people totally committed to making your job simpler, your costs lower, and your Business stronger.
- * One, easy-to-understand monthly statement for everything.
- * High quality service and features that you can rely on every hour of every day.

Intelligent Switching & Software carefully chose its service offerings to complement each other. The result is a complete resource that can supply businesses with as many or as few services as they require. There's no reason to shop around in order to piece together a solution. Intelligent Switching & Software does it all. Quickly. Simply. Reliably. And, of course, at a lower cost. In addition, Intelligent Switching & Software provides high speed, digital broadband communications to other local, long distance, and mobile telephone carriers. Our Wireless Fiber service provides an affordable way for them to extend their networks and provide sophisticated voice and data services.

Personal Service: The Intelligent Switching & Software Difference

Until now, personal service has been a missing link for most local telephone service customers. Intelligent Switching & Software makes it a top priority.

That's why when you call us, you'll hear a friendly voice eager to help -- not a computer or machine. We do everything in our power to meet your needs, simplify your phone service, and save you money. We're also great listeners. If we don't know your needs, we'll take the time to learn them. So you always get the right help. Every customer can count on Intelligent Switching & Software to be there whenever you need answers.

INTELLIGENT SWITCHING & SOFTWARE's products and services are specifically designed to meet the needs of international long distance companies throughout the world. In addition to providing international switched voice service to long distance carriers, INTELLIGENT SWITCHING & SOFTWARE provides services to prepaid/debit card companies, call back carriers and cellular operators, as well as many data users and Internet Service Providers (ISP's). As a transmission facility provider, virtually all voice and data applications are available. Whether for a small carrier routing selected international destinations to INTELLIGENT SWITCHING & SOFTWARE or for a major carrier routing millions of minutes per month, the company's commitment is the same, to provide the highest quality service at the best possible price.

In addition to the traditional switched long distance services, INTELLIGENT SWITCHING & SOFTWARE also assists carrier customers by offering co-location space for equipment, partitioning of switches, and contract maintenance services. INTELLIGENT SWITCHING & SOFTWARE takes great pride in its proprietary information and billing systems. These fully-redundant systems allow the company, on a real-time basis, to monitor customer usage, determine cost-effective routing alternatives, and manage network efficiency. The data necessary to provide detailed management reports for a customer is also inherent in the system.

Simplicity A return to the way it used to be, Simple. You won't have to worry about calling 3 or 4 different telephone companies just to add a new telephone line or make a change in your local telephone service, INTELLIGENT SWITCHING & SOFTWARE can handle everything for you. **Consolidated Billing** INTELLIGENT SWITCHING & SOFTWARE will deliver any local telephone all in one easy to read monthly statement. **Local Services** We can do it all! All of your phone numbers, lines and features are available exactly as you have them now. **Savings.** **Customer Service** When you call regarding your account, your call will be answered by one of our Customer Service Representatives. Our Representatives can help you with your local telephone service, with just one telephone call.

It is the strategic vision of the company to take its single Telecom service (block-time long distance to residential user) and leverage its success onto a full service international telecommunications company.

To establish our foundation to this market we first identified industry segments which meet our criteria for participation:

1. Exponential growth potential
2. Substantial gross profit margins
3. Very high sales per employee
4. Low maintenance residual sales
5. Identifiable exit strategy

The following segments have been targeted:

1. CLEC pre-paid
2. CIC
3. International wholesales
4. Domestic and Intentional 1+ pre-paid and others
5. Debit cards

The prepaid residential arena is a newly discovered segment, which opens the doors to providing local home telephone service on a prepaid basis. The prepaid calling card industry is today a \$2 billion industry and still requires most customers to utilize them from public phones. PPRS (Pre Paid Residential Service) has an estimated market of more than 500,000 in California alone. The market for these users continues to grow monthly as Pacific Bell continues to turn off more than 5,000 every month.

Within the competitive arena of local business telephone service is of by nature very competitive and at times difficult. Intelligent Switching & Software has compiled industry sales professionals that know the general workings of Telecom, and more importantly understand the aspects of true Tele-management.

Department leaders within Intelligent Switching & Software have an excess of 40 years of combined local telecommunications experience. Within an industry whose deregulation is more of an adolescent than that of the field of genetic engineering, this much expertise within such a young, vibrant team is unprecedented. In both segments of the business customer, as well as the credit challenged, Intelligent Switching & Software is positioned for success.

Intelligent Switching & Software will position itself as a Long Distance and International Telecommunications Company specializing in supplying wholesale long distance services to re-sellers and switch-based carriers throughout the world.

It is Intelligent Switching & Software strategic vision to take its single telecom service (long distance to residential and Business users) and leverage its success into a full-service, multi-national Telecommunications Company. Intelligent Switching & Software has assembled a management team of professionals experienced in the technical, financial and marketing aspects of running an international telecommunications company

Intelligent Switching & Software is positioned to become a dominant player in the Telecommunications Service Industry.

Conclusion

As you can see the telecommunications industry has just begun, over the next 5 years our company will expand. The overall telecommunications market grew by more than 11 percent in 2001, generating revenues of \$406.7 billion. The fastest growing segments were emerging technologies, which was up 60 percent over 2000

Over the years, the telecommunications industry has seen some dramatic changes. We've recognized those changes and re-engineered our company to provide competitive services. Our mission is to provide services that are flexible, scalable and competitive to support the multi-service telecommunications industry.

Long Distance Projections

Description / Period	May-01	Jun-01	Jul-01	Aug-01	Aug-01	Sep-01	Oct-01
Sales	\$575,000	\$327,421	\$384,372	\$456,973	\$538,345	\$581,732	\$356,672
Cost Of Goods Sold	\$402,500	\$229,195	\$269,060	\$319,881	\$376,842	\$407,212	\$249,670
Gross Profit	\$172,500	\$98,226	\$115,312	\$137,092	\$161,504	\$174,520	\$107,002
Operating Expenses							
Payroll	\$19,000	\$19,500	\$21,300	\$22,200	\$22,200	\$22,200	\$22,200
Equipment - Rental	\$1,000	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800
Insurance	\$1,000	\$1,000	\$1,000	\$1,400	\$1,400	\$1,400	\$1,400
Legal & Accounting	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$4,000
Miscellaneous	\$200	\$540	\$350	\$200	\$125	\$120	\$100
Repairs & Maintenance	\$500	\$455	\$455	\$455	\$455	\$455	\$455
Rent	\$1,400	\$1,373	\$1,373	\$1,373	\$1,373	\$1,373	\$1,373
Taxes	\$1,150	\$1,400	\$1,405	\$1,628	\$1,630	\$1,700	\$1,278
Advertising	\$14,000	\$20,640	\$17,979	\$16,009	\$16,009	\$16,009	\$16,009
Telephone	\$2,500	\$2,730	\$3,250	\$3,600	\$3,500	\$3,600	\$2,032
Utilities	\$500	\$350	\$300	\$300	\$300	\$300	\$300
Office Expenses	\$5,000	\$3,575	\$1,550	\$675	\$347	\$300	\$300
Traveling Expenses	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Total Expenses	\$50,250	\$57,363	\$54,762	\$53,640	\$53,139	\$53,257	\$52,247
Net Profit /Loss	\$122,250	\$40,863	\$60,550	\$83,452	\$108,365	\$121,263	\$54,755

Long Distance Projections

Nov-01	Dec-01	Jan-02	Jan-02	Feb-02	Total
\$515,869	\$723,000	\$935,000	\$1,163,000	\$1,346,000	\$7,903,384
\$361,108	\$505,100	\$654,500	\$814,100	\$942,200	\$5,532,369
\$154,761	\$216,900	\$280,500	\$348,900	\$403,800	\$2,371,015
\$22,200	\$23,455	\$23,455	\$26,895	\$26,895	\$271,500
\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$20,800
\$1,400	\$1,400	\$1,400	\$1,400	\$1,400	\$15,600
\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$42,000
\$200	\$250	\$500	\$500	\$500	\$3,585
\$455	\$455	\$455	\$455	\$455	\$5,505
\$1,373	\$1,373	\$1,373	\$1,373	\$1,373	\$16,503
\$1,675	\$1,985	\$2,548	\$2,850	\$3,475	\$22,724
\$17,735	\$24,765	\$28,350	\$28,350	\$28,350	\$244,205
\$2,630	\$3,715	\$4,565	\$5,785	\$6,654	\$44,561
\$400	\$400	\$400	\$400	\$400	\$4,350
\$300	\$550	\$550	\$550	\$550	\$14,247
\$1,000	\$1,400	\$2,275	\$3,685	\$3,685	\$19,045
\$55,168	\$65,548	\$71,671	\$78,043	\$79,537	\$724,625
\$99,593	\$151,352	\$208,829	\$270,857	\$324,263	\$1,646,390

INTELLIGENT SWITCHING AND SOFTWARE LLC
UNAUDITED BALANCE SHEET AT JUNE 30, 2001

ASSETS	Jun-01
Cash and Banks	\$3,936
Due from Related Parties	36,697
TOTAL CURRENT ASSETS	90,633
Fixed Assets, net	651,084
Intangibles	60,000
Other Long Term Assets	2,000
NON-CURRENT ASSETS	713,084
TOTAL ASSETS	803,717
 LIABILITIES and SHAREHOLDERS' EQUITY	
Trade Payables	80,231
Accruals and Other Current Liabilities	125,489
CURRENT LIABILITIES	205,720
Share Capital	606,000
Net Loss for the Period	(8,003)
SHAREHOLDERS' EQUITY	597,997
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY	803,717

INTELLIGENT SWITCHING AND SOFTWARE LLC
UNAUDITED BALANCE SHEET AT JUNE 30, 2001

PROFIT AND LOSS STATEMENT

Jun-01

Revenues	37,036
Direct Cost of Revenues	(29,052)
Gross Profit	7,984
Selling and Marketing Expenses	(7,590)
General and Administrative Expenses	(8,398)
Net Income	(8,003)

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Experience

President

NeTel, Inc

1997-2001

Responsible for developing a regional Telecommunication strategy aligned to the business strategies. Developed a strategy and then implemented a regional telecom support team whose task it was to carry out the project management and implementations of all regional projects and operational improvements required to achieve the strategies. Analyzed and developed new business initiatives for NeTel., traveling extensively. Efforts resulted in acquiring substantial new business interest. Managed communications, press relations, and advertising through multiple media channels.

President /CEO

TechTel, Inc

1993-1997

Managed sales, marketing, public relations, trade shows, press tours, product development, production, strategic relationships, and contract negotiations, finances. Increased annual revenues from \$0 to \$8.3 Million in 2 years and generated unprecedented publicity. Responsible for long-range strategic planning and new business development for Business Technology's telecommunications business. Implemented all aspects of corporate infrastructure to become a CLEC/IXC provider. Developed specialized billing and collection programs/products. Created dealer/agent network for the products. Structured business plan, marketing and all aspects of business administration and service implementation. Responsibilities also included product specification, pricing, new product rollout, competitive analysis, market trend analysis, long-term product planning.

President /CEO

Lens Express, Inc

1987-1993

Directed day-to-day operations. Supervises all departments in the company, Sales, Accounting, and Purchasing ect... developed marketing plans; strategic planning; competitive analysis; Increase revenue to 85 million in 4 years. Acquired, consolidated and rejuvenated three businesses with cash from that operation. Implement training and managed sales and marketing staff while maintaining effective interdepartmental communications. Travel to implement new market development. Extensive trade show and new market experience.

Vice President Marketing/Sales

Lens Express, Inc

1985-1987

Marketing in the United States. Created Successful Marketing groups utilizing marketing strategy generating new customers and increasing revenue. Developed successful business relationships with clients while and increased client database by implementing effective marketing and selling procedures. Orchestrating a global market expansion; structure/close contracts valued \$30+ million. Other responsibilities included preparing and implementing various marketing strategies to promote new trade areas and increase overall market share.

Education

1980-1985

University of Florida

Gainesville, FL

BA, MS International Marketing and Finance.

References

On Request

8811 NW 13th Street,
Pembroke Pines, Florida 33073
954-437-2216 Fax 561-883-2842
E-mail kenjacobi@usa.net

Kenneth Jacobi

Experience

1999- 2001 *Radiant Telecom, Inc*

Miami, FL

Vice President

Negotiations of Interconnection agreements under the Federal Telecommunications Act and subsequent arbitration proceedings on behalf of wire line and wireless carriers and for carriers specializing in DSL and/or specialized data transmission services.

Obtaining state certification of new telecommunications carriers.

Preparation of tariffs in Fifty States

Advising on federal, state and local tax, franchise and fee obligations.

Analysis of shared tenant services and MDU policies, pole attachment agreements, interconnection agreements, lease arrangements and irrevocable right of use agreements (IRUs).

Consultant in disputes over interpretation of interconnection agreements.

Advising on issues relating to private telecommunication networks.

Monitoring and reporting on state and federal activities in telecommunications.

Analysis of state and federal legislation

Advising clients considering the acquisition of telecommunications carriers.

Reviewing contracts for rights to undersea cable and advising on FCC related duties of international carrier activities

1997-1999 *Netel, Inc*

Fort Lauderdale, FL

Vice President of Regulatory and Administrative Affairs

Research regulatory and legislative developments in 37 states and the federal government.

Develop network of contacts for obtaining advance notice of legislative and regulatory initiatives.

Report on Congressional, federal agency, and state agency meetings and hearings.

Optioned PSC approvals for Local and IXC Licenses in 50 States

Negotiated contracts and strategic alliances with various telecommunications companies.

Products included international and domestic long distance (switched and dedicated), debit cards, International callback, information services, Internet commerce and billing & collection services.

1992-1997 *Colmena Corp*

Pompano Beach, FL

Vice President of Regulatory and Administrative Affairs

Preparing and filing required applications (e.g. state certification, rate increases, finance approvals, contract approvals and tariff changes) or other pleadings required for PUC action and then pressing forward the regulatory process to assure prompt decision by the PUC

Resolving disputes between customers of utilities including if necessary, pressing informal complaints or filing formal complaints

Advising and participating in telephone company proceedings

Commenting on proposed policies to facilitate the promotion of clients' businesses and to provide information about activities

Administered Corporate Affairs and Board of Directors meetings.

1990-1992

TechTel Communications, Inc

Pompano Beach, FL

Operation Manager

Provide regional field program management support during the implementation of new market areas.

Analyze current operations, processes & staffing to ascertain any gaps or deficiencies.

Provide staffs support to deliver telephony products & services.

Provide support to local Operations to assure compliances.

Serve as the regional SPOC (single point of contact) for all intra-company inquiries.

Serve as Corp HQ liaison for service launches by local Operations in assigned market areas

1987-1990

United Communications of Florida

Miami, FL

Regulatory Manager

Operations coordinator for special projects implementation.

Full responsibility for all Federal and State government regulatory compliance and certification.

Liaison officer to the Federal Communications Commission, all State Utility Commissions and Departments of State.

Managed tax and contracts department.

1979-1986

T&B Ansley

Los Angeles, CA

Quality Control Manager

Expanded testing procedures of all phases of inspections.

Evaluated all test reports for accuracy

Required certification of all inspectors.

Managed 20 inspectors.

Education

1975-1979 University of Southern California Los Angeles, CA

Majors: Mechanical Engineering, Accounting

Additional Course Completed: Blueprint Interruption, True Position

United States Defense Department Course on Government Contract Interruption

BellSouth Basic Training, BellSouth Lens Training, BellSouth TAFF Training

Member of the Federal Communication Commission Bar Association (Non Voting Member)

Interests

Computer, collecting Science Fiction First Editions and Programming.

References

On Request

David L. Cox

WORK SUMMARY:

Extensive engineering and senior management experience in the design, specification, development, implementation, testing, and operation of high reliability telecommunications networks using cable, wire, radio, fiber, microwave, meteor burst, spread spectrum and satellite technologies. Broad national, international experience with tested leadership skills in information technology fields. Long Term proven talent in all phases of common, carrier, end user, and equipment supplier networks coupled with broad telecommunications industry construction expertise. Demonstrable record of accomplishment of corporate profit generation. Assigned to correct troubled telecommunications projects. Advisor to senior executive management. Consultant to government and commercial clients at the highest levels, and a key resource in the development of systems considered vital to US National Security. Solid senior managerial contacts at the highest legislative and executive levels of the federal government, and the telecommunications industry.

PROFESSIONAL EXPERIENCE:

2000 - 2001 BB Telecommunications, Inc., Dallas, TX

Director - Engineering and Development

Over see all engineering work efforts for telecommunications clients on a national basis.

Plan, forecast, budget, schedule manpower; allocate resources, and subcontractors on all major programs. Provide monthly status reporting to senior executive management. Provide oversight and workout for troubled engineering efforts. Report to Corporate CTO and CEO. Management responsibility, on a national basis, as the supervising professional engineer for all sealed submittals to clients.

Assigned budget & profit center responsibility. Managed profit/loss for selected critical national clients to include customer care and relations. Increased business base by 50% in one year's time frame. Lowered operational costs by 45% and contained overhead growth. Technical oversight for compliance with Telecordia/Bellcore standards, BICSI standards, ITU/CCITT standards, and ANSI/IETF standards on all projects.

Developed, and implemented national EF&I service segment for several clients including NEC, Tellabs, MCI Worldcom, McLeod/CapRock, Global Crossings, Level(3), SBA, Erickson, NORTEL, Alcatel, AT&T Wireless, AT&T Broadband. Accountable for all IT based engineering design tools, including CADD functions. E911 consulting efforts for several governmental jurisdictions on revised FCC requirements for wireless access.

Areas of particular emphasis included cellular carrier site development, design, zoning, construction, integration, and placement into operational service.

Locations include US domestic (TDMA [IS-54/136], CDMA [IS-95])) and European (GMS/dual). [Q.921, Q.700, Q.773, GSM 9.02, IS-41]

Technical oversight in the design, development, construction, and fit-up of transoceanic fiber optic cable landing stations in the America's and Pacific Rim. Development, survey, zoning, design, and construction of switching centers, including fiber optic (OC-3/12/48/192) in-line amplifiers (ILA / repeaters / regenerators) sites, junction centers, co-location sites, and carrier hotels. [EIA/TIA 568/569/606/607] NEC OC3/12/48, Cisco, 3Com, Telecordia (NEBS), NEC/NFPA, EIA/TIA, ITU standards compliance oversight. ISO 9000/9001.

Technology base includes DWDM, VoIP, SONET (SDH/PDH) [STS, STM, EC, VT] and ATM [DXI, UNI, AAL], photonic switching, packet switching (MPLS), quality of service protocols (DIFF-SERV), broadband, 3G GSM, xDSL, WAP, SMS, TCP/IP [UDP, ICMP, SMTP, ARP, FTP, OSP, BGP, RIP, PPP, SNMP], Frame Relay [T1.607/617/618] and Blue Tooth. TL1 OSS integration consulting for several clients.

Responsible for all regional internal information technology functions (WAN, LAN, Cisco Catalyst Bridges/Routers, 3Com NICs, Windows NT File Server, NT Clients) for computer aid design (CAD) functions. Bentley Micro-Station ®, and AutoDesk AUTOCad ® (R14, R2000, R2000 Map) with high speed LAN printers, color plotters. Monthly drawing output for client delivery in excess of 4,000 sheets (B/D sized). Windows ME/2000 environment with MS Office 2000 Professional MS Visio, Project, Adobe,

Software developed included Object Oriented Design (OOD) using a Structured Systems Approach (0.7M lines of code). Development used embedded systems (Windows-CE), MS Visual Basic, MS Visual C++, Macro Assembler, Red Hat Linux ®.

1995 - 2000 GTE International, Irving, TX
Director-Network Engineering

In charge of all national network engineering activities for a European country in the recently privatized national telephone company for GTE International, with 3.3 million telephone access lines, and 850,000 wireless users. Develop strategic business plan and technical approach to efforts. Organize national engineering effort. Oversee implementation of nationwide SS7 network. Lead development of strategic and tactical business plans. Survey, and implement national engineering organization for delivery of services to customers. Development of competitive response plan for residential and business customer base. Network expansion contracts for doubling access line capacity within three years. Initial business startup efforts on cable television subsidiary using DOCSYS cable modem technology. ISDN BRI/PRI and HDSL product introductions. Close working cooperative effort with Commercial, Legal, Operations, Finance, and **Regulatory** organizations. International carrier interconnection coordination efforts (satellite, fiber). Coordinate GSM Cellular engineering start up efforts for 1.5M users, IS-41c (SS7) signaling. SONET SDH transmission systems to STM-4, 3/1/0 LUCENT ® DACS, ADM, digital microwave links. Cellular site and tower development, zoning, permitting, construction, and service turn up.

The data backbone supports 35 ISP's POP locations with a network of 100 routers, and 240 hubs in the backbone, and 1,800 PC users. Network handles all of the OSS data collection functions for 750 central offices with 800 switches (50% of the network is digital [Siemens, Alcatel, Erickson], with 3.5M access lines, 0.8M trunks, 1.2M cell phones, 43 SONET/SDH LUCENT @ DDM-2000 rings at STM-4 levels, 310 repeater/ADM huts, 100 DACS units, 600 DSX locations, 65 microwave radio routes (45 repeater towers), 53 coaxial cable routes, in excess of 4,500km of interoffice cables, 24 STP pairs. 94 MTSO's and 506 cell sites, with microwave links to 53%. Cable TV customers exceed 2.2M households. Fitjitsu FLM 150/300/600.

Nortel OC-48/192 Access Nodes, STM, STP, Super Node. DC Power (-24/49/92v; 4000-9000AMP/H) Lorain, Lucent, APC. Standby generator, AC transfer switches. Fire detection/suppression systems. Lucent DDM-2000 OC3/12/48, SLC-2000 OC-3/12, Adtran, Tellabs 5500, Pulsecom, and Copper Mountain. ISO 9000/9001.

Program manager for oversight and coordination of GTE's implementation of FBI mandated digital wiretap law [CALEA] affecting 1,660 host central office switching systems. Program costs to GTE estimated to be in excess of \$850M. Coordination of all GTE interdepartmental efforts for compliance with legal deadlines. Operational responsibility for all investigations of unauthorized intrusions within GTE common carrier networks. Identification of individuals or groups "hacking" into GTE computers, data networks, voice networks, central office switches, and related SS7 equipment. Management responsibility for evidence collection in criminal prosecution involving unauthorized intrusions. Execution of all US Government Title III wiretaps involving high technology and national security cases for GTE. Development of National Security Operations Center and Testing Facility in Lewisville, TX. [Uses SS7 technology of SU, LSSU, RIO, MTP, SNM, SNT, MSU, ISUP, SCCP, TUP layers]

Consulting management engineer for various critical federal government intelligence community GTE customer for networking technology. Expansion architectural planning study. Service as Chief Engineer for a large customer for LUCENT @ Technologies 5ESS network installation (5E10) covering 56 buildings, with ORM, RSLIU, ESM, SLC-2000 and RSM applications in National ISDN-2 PRI/BRI environment coupled with Signaling System 7 (SS7) connectivity (35,000 lines, 4,000 trunks, and 266,400 MDF pairs). [Q.931, Q.921, I.210, LAPD, I.430, G.703]

Specification, procurement, and installation of STP, SCP, and AIN Platforms with A links to ILEC, CLEC, IXC, and IRC providers for particular customers. Infrastructure upgrade includes desktop dial-up ISDN BRI/PRI Internet and Corporate Intranet access. (Includes cable plant, MDF, facilities spaces, power, and external connectivity). Program valued in excess of \$150M.

Telecommunications network design for remote information collection program employing LUCENT @ SONET / ATM, Advanced Intelligent Network (AIN), and ISDN BRI technology for audio, program, data, fax, image, OCR, and video (NTSC, PAL, SECAM) source capture from cable, wire line, and RF mediums. Tools employed Microsoft Windows NT and Windows for WorkGroups, Lotus Notes, Lotus ccMail, Novell NetWare, TCP/IP, IPX/SPX, ATM hubs, switched

Ethernet (10Base2, 10Base5), FDDI, FIBER CHANNEL, HIPPI, ORACLE, INFORMIX, and UNIX file servers (CD-ROM jukebox). SONET interfaces to IRC, IXC, and LEC vendors. Program valued in excess of \$60M. Software developed included Object Oriented Design (OOD) using a Structured Systems Approach (2.1M lines of code developed).

GTE Program manager for selected customer projects with P/L responsibility. Business development responsibility for selected National Intelligence Community members for \$15M in annual consulting revenues.

Design development of SS7 fraud, network protection management solution for GTE Network Services for the collection of \$0.7B in unbilled revenues. Interconnection to wire line cellular carriers on IS-41, and X.25 basis. SS7 links exceed 5,100 in the US, and X.25 PAD locations exceeded 14,500. Preparation of demonstration CALEA prototype for display to GTE Network Services and US Government as proof of concept using NORTEL DMS-100/200 SuperNode switch with SMDS/AccessNode technology and LUCENT ® 5ESS-2000. Patent application made for developed technology.

Serves as member on AITS committees (T1X1, ICCF, ICNA, and CLC), Internet Society IETF, and IEEE 802 committee for GTE. Senior technical consultant for GTE to President's National Telecommunications Advisory Security Committee (NTSAC). Oversee GTE work effort for the President's Commission on Critical Infrastructure Protection (PCOCIP). Technical consultant to FBI National Computer Crimes group (CITAC) on telecommunications security matters, and expert witness for US Department of Justice Assistant US Attorney Office in Washington, DC dealing with telecommunications terrorism, counter intelligence, and international telecommunication crimes. Work effort under US Department of Justice Computer and Intellectual Crimes section oversight as part of National Infrastructure Protection Committee (NIPC) intergovernmental group. Technical telecommunications security consultant to TSG Working Group (WG). Technical GTE advisor to FBI on domestic law enforcement wiretap matters (CALEA) Telecommunications engineering SIGINT analysis for the LUCENT DDM-2000 SONET based fiber optic cable systems.

1984 - 95 Harris Corporation, Electronic Systems Sector, Melbourne, FL
Chief Engineer-Telecommunications and Medical Telecomm.
Assigned as Chief Engineer-Telecommunications with full operational oversight responsibility for Harris telecommunication systems. Design, engineer, estimate cost, select vendor products, supervise installation, testing, and cutover of voice, data, video, telemetry, alarm, and carrier systems.

Designed, prepared business plan, engineering change orders, financial analysis for conversion from analog PBX to new digital central office 12,000 port ISDN switch. Local campus contains 13,000 duplex wall jacks, 25.8 miles OSP cable, 48 manholes, 452 splice cases, 820 miles ISP cable, carries 6.5M call minutes/month. 84 ISDN PRI (23B+D) trunks, and with 7,250 active stations of which 5,660 are BRI (B+D) lines.

Digital 6/18 GHz microwave radio routes in use between campus locations.
LUCENT ® DDM-2000 OC-12 with (12) DS-3's interconnect to Bell South for all

services, including AT&T, Sprint, Cable & Wireless, and MCI/BT. Multiple LUCENT ® DDM-1000 (DS-3 fiber)/ DDM-2000 (SONET/SDH) systems supplying 52 building CEV's with D4, SLC Series 5, DS1/DS3, ISDN BRI/PRI, Ethernet, Frame Relay, X.25, SMDS, and FDDI for campus distribution, using Stratum 2 clock.

Supervised installation of 35,000 pair COSMIC MDF, 1500 jack DSX-1 cross connect field, 100 jack DS-3 cross connect field, cut-over of Tellabs 532-L 3/1/0 DACS unit, and growth upgrade to SONET OC-12 Tellabs TITAN. Interfaces at STS-1, STS-3, OC-1, OC-3, and OC-12 levels. Design SS7 access (A Link) for central office to five STP pairs within LATA for FG-D trunk access (CCS, 64K Clear), with FG-B trunking.

Prepare technical SOW for lease of 1900 radio pager units, and installation of campus terminal. Supervise engineering, installation, and interconnection of three macro cell sites with cellular carrier for wireless access (AMPS). Design, engineer, and install micro-cell technology in multiple multi-story buildings, and interconnect with macro cell sites. Develop interconnection to SS7 network for AIN operations. Engineer, develop, and test mobile cellular data applications in micro and macro cell environments. Develop security enhancements with STP and SCP databases.

Prepared all engineering orders to rehabilitate 35-year-old underground copper telephone cable plant to allow of ISDN PRI applications. Supervise engineering and installation of interconnection with cellular carrier for wireless services. Reduced common carrier operating expenses from \$2.8M to 1.2M with modernization. Construction and operation of 45 miles of fiber optic cable backbone for Ethernet LAN/WAN system employing multi-vendor 85 routers, 350 bridges, and 800 repeaters supporting 4,340 local attached PC devices, using DS-1, FDDI, Fiber Channel, HIPPI, and DS-3 circuits. TCP/IP, AppleTalk, NetBEUI, IPX, and SPX used as protocols. UNIX host as domain name server with X.400/X.500 services. FTP, TFTP, Telenet applications. Banyon Vines, Novell NetWare, Microsoft Windows for WorkGroups/NT products employed, with Lotus ccMail. In excess of 400 dialup external modems in pool for remote employee access. Fifteen remote building sites in CONUS attached via TCP/IP with 3,650 devices. Network monitoring center with "sniffer" and LAN analysis tools. Tools employed included SUN SPARC 10, UNIX, C+, ORACLE, DEC VAX 11/75; VMS 11/75; IBM PC (286, 386, 486), Assembler, AUTOCAD R13, C+, MS-DOS 6.22, EXCEL, QUATRO PRO, MS Windows, MS Office, MS Publisher, MS Word, WordPerfect, Oracle, Remedy, IBM 3083, JCL, TSO, COBOL, PL/I.

Financial accountability for all capital projects, and oversight of all secure telecommunications including yearly construction budget \$1.1M, with total purchased services budget of \$2.1M. Technical management of 10 staff members. Technical oversight for all six campus locations in immediate Brevard area for telecommunications, and eight remote field sites. Technical manager for all inter-exchange carrier matters with ICG, MFS, MCI, AT&T, US Sprint, and COMSAT. Performed consulting duties for entire corporation for telecommunications. Oversee, order facilities based common carrier interconnect (FCC 1), supervise acceptance, bid, and evaluate all telecommunications facilities from LEC's and IXC's valued at \$5.4M annually. On-line EDI developed for interconnection with 19 LEC's, 7 RBOC's, 4 IXC's, 2 IRC's, and 12 NECA carriers at an annual savings of \$450K.

Development, design and construction of four classified telecommunications projects (value \$953M) for U. S. Government delivered on-time, and on-budget. Chief technical consultant on eight current telecommunications contracts worth \$1.5B in revenues. Telecommunications programs included:

- design of LAN/WAN for US Department of Commerce, Customs Service, Drug Interdiction National Command Centers;
- design of Federal Emergency Management Agency mobile crisis telecommunications systems;
- design of the secure SIOP telecommunications links for the US Air Force Small ICBM Mobile Launcher;
- design of nine WAN networks for the intelligence community (high bandwidth digital image capture/ analysis)
- design of a transportable telecommunications system for the US Department of Defense Special Forces Command;
- design of LAN technology solution for US Air Force ICARDS effort for real-time intelligence distribution;
- design of a nation-wide telecommunications WAN/LAN network for the US Department of Justice;
- design of a regional telecommunications backbone for a waterway radar control system for the US Coast Guard;
- design of telecommunications infrastructure improvements for the Federal Aviation Administration;
- design of a secure telecommunications systems for the White House Communications Agency;
- technical consulting for the Federal Bureau of Investigation in telecommunications intercept;
- design of secure video teleconferencing network for National Command Authorities;
- technical telecommunications subject matter expert for US Air Force JASORS program;
- design for US Air Force Range Standardization Activity (RSA) LAN network inter-site backbone,
- design for US Department of Justice/FBI National Crime Information Center (NCIC) program.
- consultant to Board of Governors, US Federal Reserve System (disaster planning of FEDWIRE II data backbone).

Telecommunications technologies employed include UHF/VHF/SHF satellite, traditional communications links (copper, coax, fiber optic cable, microwave radio [2,4,6,8, 18, 23 GHz] line of sight), meteor burst telecommunications links, over the horizon RF telecommunications links (VLF, SHF, HF radio), infrared line of sight, LASER line of sight, and spread spectrum techniques (SIGINT/CLANSIG). Requirements include GPS location capabilities world-wide. Software developed included Object Oriented Design (OOD) using a Structured Systems Approach (1.5M lines of code).

Provided to US Government on an ongoing basis as a recognized expert in the detection and interception of digital telecommunications. Serves as member on AITS committees (T1X1, ICCF, ICNA, and CLC), Internet Society IETF, and IEEE 802 committee for Harris. Senior technical consultant for Harris to NTASC.

Technical telecommunications security consultant to TSG WG.

Overall program engineer for Harris Corporation employee medical center located in Melbourne, FL, employing LAN/WAN links for MRI, CAT Scan, Mamo, Xray, Fluoro, Nuclear Medicine, and Xray OCR to capture, store, analyze, display, and transmit medical diagnostic data to several major university medical centers in US. Efforts include total business office automation, dictation, voice telecommunications, computer FAX, billing, accounting, patient management, and scheduling functions for a population of 65,000 individuals. Developer of three patent applications for ISDN switching enhancements to existing Company PBX products currently in development. Management responsibility for System Engineering Development Laboratory. Division Bonus Award in 1985, patent awards in 1986, 1987, 1988, 1989. MDSO Awards (9) for Excellence in Customer Service 1990, 1991, and 1992. Sector Award for Total Quality in 1992, 1993, 1994. Emerging Division New Business Product Line Award in 1994.

1979-84 MCI Corporation, Washington, DC
Development Manager

Managed software, firmware, and hardware research, design, development, testing, and installation for all computer based (IBM 370; VM/370; COBOL, PL/I; DEC 11/75; VM/11; UNIX; C+) fiber and microwave radio transmission (T1, T2, T3) engineering systems [MECCA]. Administrative, salary, policy, and operational authority. Assigned to the development and execution of technical **regulatory** policy with Legal Department, to include direct involvement in US v. AT&T, and inter-carrier relations. Assigned as troubleshooter for technical network matters. Technical team member for the development of long-range engineering plans for backbone network. Consultant to circuit layout engineering and transmission (T1, T2, T3) planning groups. Developed microwave and fiber optics transmission routes. Technical advisor on specification, development, installation, and operation for toll/tandem central office digital electronic switches (NTI DMS-250) at 20 sites with a combined trunk count over 40,000. Assigned to oversee the technical review and approval of all marketing proposals for network customers. Designed banking check clearing network for Wells Fargo, United Bank of California, Bank of America, Crocker National Bank. Significant item processing and funds transfer applications. Designed data transfer application for Westinghouse, Boeing, Allstate, and IBM. Development of technical analysis programs (IBM 370; VM/370; FORTRAN, JCL/370, TSO). Company Awards in 1979, 1981, 1982, 1983. [Five month sabbatical leave in 1982 to rescue a Midwest Common Carrier in bankruptcy under contract.]

1977 - 79 Long Lines Department Headquarters,
American Telephone & Telegraph Company, Bedminster, NJ
Staff Supervisor

Designed, supervised construction and operation of National Bell System Demonstration Center. Supervised associated data processing center. Directed hardware and software development projects (PDP 11/45; RSX/11; UNIX; PL/I, C, FORTRAN; IBM 370, OS/370, JCL, TSO). Senior technical consultant for digital communications projects. Assigned to national technical response team for all circuit layout problems. Assigned to develop long range planning for integration of voice and data switching/transmission systems. Upgrade

supervision of central offices (Western Electric 4ESS; 1ESS, 5XB) and transmission plant (L, N, O, K, T1, T1/OS, T1C). Designed data communications networks for VISA International, CitiBank, Eastern Airlines, United Airlines, PhotoMat Corporation, Merrill Lynch, United Press International, National Broadcasting Company, American Broadcasting Company, and Columbia Broadcasting Company. Developed financial data transmission plan for US Federal Reserve System. Outside and inside plant construction experience. Participated as technical advisor and expert in legal/**regulatory** matters. Assigned to engineer certain critical U. S. Government networks, US Department of Defense.

1976-77 Kollmorgan Corporation, MacBeth Division, Newburgh, NY
Project Engineer

Designed, developed, tested real-time software, firmware, and hardware for microprocessor (8008; Assembler) applications involving high-speed communications. System software (DEC PDP 11; RT/11; Assembler) and prototyping duties.

1971- 76 Michigan State University, Department of Chemistry, East Lansing, MI
Systems Programmer

Responsible for the design, development, and implementation of real-time microcomputer (DEC PDP 8 OS/8) data acquisition and analysis systems. Central mainframe computer development duties. Designed, implemented wide band (56KBS) coaxial data communications network. Hardware, software, firmware design duties. Mainframe programming duties (CDC 6500; FORTRAN; COBOL; Assembler). Developed high-speed communications software, firmware, and hardware for client firms (DEC PDP 11; RT/11; FORTRAN, Assembler). Prepared customer proposals.

PROFESSIONAL

Professional Engineering License (TX, Application Made 2001; Electrical and Software Engineering Disciplines)

GOVERNMENT:

President's National Security Telecommunications Advisory Committee (NSTAC), Advisor (1989-2000)

President's Commission on Critical Infrastructure Protection, Technical Expert Consultant (1996-1999)

Security Clearances TS/SCI, CI/ISSA/Full Life Style Poly (Staff Access), EBI/ESI, SAP/SAR

PATENTS

1 Issued (1985), U.S. Government Classified Telecommunications Technology

2 Pending (1995) Applications (Harris), ISDN and Switching Technology

1 Pending (1998) Application (GTE), SS7 Technology

STANDARDS:

ANSI T1, Exchange Carriers Standards Association (1986-1989)

Voting Member for Harris Corporation

ANSI T1, Alliance for Telecommunications Industry Solutions (ATIS), T1X1 (1995-2001) Member, GTE

ATIS, Carrier Liaison Committee (CLC), Industry Carriers Compatibility Forum

(ICCF),
Industry Numbering Committee, (INC), Voting Member, (1992-1998)
Internet Society, Internet Engineering Task Force (IETF), Member (1990-)
IEEE Computer Society, 802.14 Cable TV Protocol Standard Committee,
Observer (1995-)
SONET IF, Observer (1998-)

EDUCATION:

BS Chemistry/BS Computer Science, Michigan State University (1974, 1975)
MS (Degree Candidate) Telecommunications Management, University of
Maryland

PUBLICATIONS:

15 Articles and 6 Invited Speeches (1985- Present)

MEMBERSHIPS:

Institute of Electrical and Electronic Engineers (IEEE),
Senior Member (elected 1983); Member (1979-)
New York Academy of Science, Member (1976-)
National Emergency Number Association, Voting Member (1998-)
Association for Computing Machinery (ACM), Member (1974-)
American Chemical Society (ACS), Member (1974-)
National Fire Protection Association (NFPA), Voting Member-Electrical Codes
(1990-)
Building Industry Consulting Service International, Member (BISCI) (1990-)
Registered Communications Distribution Designer (RCDD), #93095, #96482,
#991201, #021631
Association of Old Crows, Member (1986-)
Society of Cable Telecommunications Engineers, Member (1997-)
American Institute of Plant Engineers (AIPE), Member (1990-)
American Radio Relay League (ARRL), Life Member (1962-)
Federal Communications Commission, WB8FFC (1962-), RadioTelephone (1972-
);
Admission to Practice (1981-)
Michigan State University Alumni Association, Life Member:
Lyman Briggs College Alumni Association (1975-)
American Mensa (1975-) [by ACT/SAT examination]

Additional Information:

Employment Type: full time
Job Category: Telecom Hardware
Job Title: Engineering
Job Level: Director
Years of Experience: 24
Education Level: Masters **GPA:** 3.2
Employment Status: Employed
Job Search Status: Actively looking for a new position
Relocation: Yes
RelocationArea: Location open.