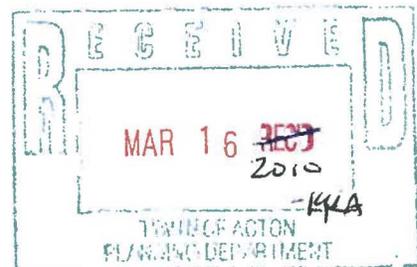


Limitations Imposed by Flagpole Concealed Antenna Mounting

- The number of actual antenna apertures that can fit inside one section of a flagpole tower are less than the number that can be fit with external mounting. This often requires some Wireless Operators who deploy multiple frequency bands and technologies to utilize multiple levels of a flagpole tower, which quickly uses up the flagpole tower's capacity for Collocation of other Wireless Operators.
- The specific antenna choices which can fit inside a section of a flagpole tower are limited, as many normally used antennas will just not fit inside a flagpole tower. This limitation can have the effect of reducing both the coverage and capacity of the flagpole tower compared a structure that allows for external antenna mounting. In turn this requires a greater number of flagpole towers within the given community, as compared with structures that allow for external antenna mounting.
- The number of collocation tenants that can be accommodated on a flagpole tower is often half as many as can be fit onto a structure that allows for external antenna mounting. In turn this requires a greater number of flagpole towers within the given community, as compared with structures that allow for external antenna mounting.
- Wireless Operators who utilize microwave backhaul for disaster recovery, or simply due to their preference over fiber or other LEC backhaul solutions to connect the site to their network, are hampered in that proper microwave backhaul antennas will not fit inside the flagpole tower.
- Antenna Aiming Adjustments are limited within flagpole towers, which can have negative effects on a Wireless Operator's coverage and capacity.
- Public Safety and other community antenna needs typically require Omni Whip style antennas, which will not fit properly nor work properly inside a flagpole tower.
- Servicing antennas is much more difficult and prolonged because of the complexities of the removable flagpole tower radome that covers and conceals the antennas.
- Flags are seldom flown on flagpole towers due to issues surrounding flag etiquette and nighttime lighting.



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Career Objective:

To provide RF Engineering Guidance to the Wireless Telecommunications Industry in the Northeast, by utilizing and building upon my previous experience with Wireless Networks.

Wireless Telecommunications Industry Experience

SBA (formerly Lightower, National Grid Wireless, and GridCom):

2Q '05 to 1Q '10 – Director, RF Engineering – Led the RF Engineering Design, Build-Out, and Performance of Neutral Host Wireless Distributed Antenna System Networks that support Multiple Telecommunications Carriers (Wireless Operators), throughout the Northeast.

Chris Fagas Consulting, LLC:

Consultant to AT&T Wireless

2Q '02 to 4Q '04 – Principal RF Engineer, Project Liberty – Led the RF Engineering of the AT&T Wireless 3G PCS Build-Out in CT; Provided Extensive Engineering Expert Witness Testimony to the Connecticut Siting Council, Local Municipalities, and to the Superior Court of Connecticut.

Nextel Communications:

4Q '01 to 2Q '02 - Nextel Senior Manager, Engineering Services NY/NJ/CT - Taught/Administered Technical Engineering Classes throughout the Market and Managed FCC - EMF Compliance/FAA Regulatory/Public Safety Interference/Capacity Planning Projects/Site Optimization Group/Disaster Recovery Team. POC with Corporate HQ in VA for all Public Safety Interference matters and Nextel University Training and Certification programs.

1Q '00 to 4Q '01 - Nextel Senior Manager, Site Development NY/NJ/CT – Started up and Managed the Cell Site Modification Group/Managed Cell Site Audit Group/Managed In-Building System Group/Managed Disaster Recovery Team.

3Q '98 to 1Q '00 - Nextel Principal RF Engineer and Senior Manager, RF Engineering - Managed NJ RF Network Engineering Design and System Performance: Built-Out, Staffed, and then Managed the Fairfield, NJ RF Engineering Office/MSO.

3Q '97 to 3Q '98 - Nextel Principal RF Engineer and Senior Manager, RF Engineering, RF Network Design: Engineered and also Managed the Design of the Metro NY/NJ/CT Market RF Network.

2Q '95 to 3Q '97 - Nextel Senior RF Engineer/Manager, RF Engineering, Spectrum & Technology, NY/NJ/CT: handled all Interference Issues, Frequency Planning Group, Analog Migration, Regulatory Matters, Co-location Design, Evaluated and Implemented New Technologies (i.e.: Smart Antennas, TTAs, In-Building Systems, GPS Solutions, Broadcast De-Tuning).

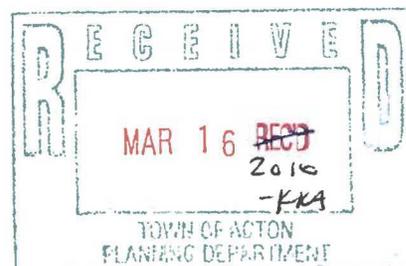
3Q '94 to 2Q '95 - Independent Consultant/Senior RF Engineer to Nextel NY/NJ/CT: handled all Interference Issues, Frequency Planning Conflicts, Analog Mapping, Coordinated Regulatory Matters, assisted in the first NYC telephone call stockholder demonstration, and Activating/Optimizing/Launching the NY/NJ/CT Market's Commercial Start.

Prior/Other Wireless/RF Experience:

Consultant in the field of RF Engineering: including Antenna/Array Design; Coverage Analysis; Interference Mitigation/Resolution; Active/Passive RF Component Design; EMF Analysis; Wireless Ventures, Wi-Fi Network Design.

Education:

University of Rhode Island, Bachelor of Science Degree
Pearl River High School, NY State Regents Degree



Pertinent Licenses: FCC - Extra Class (Passed 8 FCC Examinations).

Published Articles: Authored numerous technical articles that have been published in many different technical journals, and on the Internet. These include magazines and journals such as Communications Quarterly, QST, and the Eastern VHF/UHF Conference Proceedings.

Public Appearances: Presented several technical talks at PCIA Conferences in 2007, 2008, and 2009 and the New York State Wireless Association Conference in 2009 on DAS technology. Presented a technical tutorial on the historical progression of wireless Cellular and PCS communication technologies, as the "Lead-Off Speaker" at the 2006 Connecticut Siting Council Cellular Symposium, in Hartford, CT. Provided RF Engineering Expert Witness Testimony hundreds of times before Municipal Zoning Boards, State Agencies, and Superior Court.

Organizations: IEEE (Institute of Electrical and Electronics Engineers); IEEE Antenna and Propagation Society; Radio Club of America, ARRL and QCWA.

Community Service (Volunteer): Designed and Assisted in the Installation of the Public Safety Emergency Communications System for the Borough of Park Ridge, NJ. Was an Active Member of the Park Ridge Emergency Management Council as its Communications Officer for 9 years.

References: Available upon request.