Telecommunications Engineer

Michael Carter

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📍 United States, New York, NY

Professional summary

Experienced and results-driven Senior Telecommunications Engineer with expertise in the design, implementation, and optimization of wired and wireless communication systems. Highly skilled in fiber optics, RF engineering, 5G network deployment, and network security.

Experience

Lead Telecommunications Engineer

January 2018 - Now

Verizon Communications / New York, NY

- Spearhead the end-to-end design, deployment, and optimization of advanced 5G networks.
- Oversee fiber optic transmission system upgrades, achieving a 25% increase in bandwidth.
- Conduct detailed RF planning, site surveys, and spectrum analysis to support cellular network expansion.
- Collaborate with cross-functional teams to integrate new technologies and maintain optimal network performance.

Telecom Network Engineer

August 2012 - December 2017

AT&T / Boston, MA

- Led network performance optimization initiatives for LTE and VoIP services, improving data throughput by 20%.
- Implemented microwave and satellite communication solutions to connect remote regions, ensuring uninterrupted communication in hard-to-reach locations.

Electrical Engineer – Telecommunications

June 2007 - July 2012

Cisco Systems / San Jose, CA

- Conducted protocol testing and validation for IP-based communications systems.
- Provided technical support for large enterprise clients, troubleshooting network issues and recommending solutions.

Volunteering

Volunteer Engineer

March 2019 - Now

Community Technology Initiative, New York, NY

- Lead the installation and maintenance of high-speed internet infrastructure.
- Work with local organizations to provide free tech workshops.

Education

Bachelor of Science in Electrical Engineering

Massachusetts Institute of Technology (MIT)

Graduated May 2007

Certifications

- **5G Network Deployment Certification** – Cisco Systems, March 2021
- **Certified Wireless Network Professional** – CWNP, July 2019
- **Certified Fiber Optic Technician** – FOA, November 2018

Skills

5G and LTE network deployment and optimization ◆◆◆◆◆

Fiber optics and RF engineering ◆◆◆◆◆

Microwave and satellite communication systems ◆◆◆◆◆

IP networking and network protocols ◆◆◆◆◆

Network security protocols (IPSec, SSL/TLS) ◆◆◆◆◆

Software-defined networking (SDN) ◆◆◆◆◆

Awards

⚙️ Outstanding Engineer Award – Verizon Communications, 2021

⚙️ Excellence in Network Performance – AT&T, 2016