Brett Markham
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Experience
Network Engineering Director (2/2002 to Present) Braintree Electric Light Dept, Braintree, MA
Major Projects and responsibilities:

- Spearheaded OS migrations from Windows to Solaris to Linux for all major services

- Managed, organized and mentored technical support and engineering staff supporting up to 6,500 end users

- Managed, planned and implemented major infrastructure migrations for NAS, routing/switching, and CMTS

- Designed, managed and implemented major technology migrations

- Led the implementation of an L3-switched Fiber-to-the-Business system with zero outages in ten years

- Planned, implemented and maintained company website, proxy search engine, revision control and more

- Performed highest level troubleshooting of systems and services escalated from other personnel

- Created documentation and training materials, delivered training on core protocols, security, and more

- Designed and wrote software in Java and C for migrations, reconciliation and automation

- Created, maintained and adapted Acceptable Use Policies, Policies and Procedures, and regulatory compliance

- Negotiated best pricing with vendors, reconfigured service needs for lowest costs

Certifications
Oracle Cloud Architect Associate (289446604OCIAA2021CA)
Cisco **CCNA** (437168388947ELBM)
CompTIA **Security+** (N40VMWSHTCV41WGS)

Skills
IP/IPv4/IPv6, Routing/Switching, Linux Administration, Cloud, Security, CMTS, DOCSIS, Java, HTML/CSS/JavaScript, Automation, CCNA, Git, Virtualization, C programming, Ubuntu, Debian, RedHat, KiCad, Troubleshooting, DHCP, DNS, Postfix, Security+, Microbiology, Biosafety, Molecular Biology, Arduino

Notable Achievements
Budgetary constraints: Maintenance, upgrade and enhancement of systems under severe budgetary constraints
Security best practices: Technical and policy leadership in security that accomplished zero hacks or compromises of an
        ISP serving up to 6,500 end users over a 20-year tenure
Successful author: Wrote numerous books in applied sciences through Skyhorse Publishing, NYC

Education
BS **Computer Science** (Graduating 9/2022) CGPA 3.87 University of the People, Pasadena, CA
AS **Computer Science** (11/2021) CGPA 3.84 University of the People, Pasadena, CA
AS **Electrical Engineering** (9/1992) CGPA 3.67 Cleveland Institute of Electronics, Cleveland, OH
Certificates: CDC-Biosafety, CDC-Microbiology, MIT-Molecular Biology, Wellcome Sanger-Bacterial Genetics, Kyoto-Biochemistry, DTU-Bacterial Genome Sequencing

Soft Skills
Written communication skills with numerous successful books in print
Excellent **oral** and **presentation** skills
Managing and organizing **projects**, personnel and **teams** with and without geographic separation

Organizations
Internet Society, Citizen Science Association, American Society for Microbiology, American Radio Relay League (ARRL)