Brian Baker

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SUMMARY

Experienced Satellite Network Engineer and Software Developer looking for new opportunities in either field. More than 15 years of experience in Satellite Network Engineering, system design, complex system integration and automation. Recognized for diagnosing and implementing solutions to new as well as existing complex issues that were otherwise going unsolved.

- System Design
- Link Budgeting
- Antenna Pattern
- Multiple Access Methods
- MySQL, NoSQL
- Agile, Project Management
- MatLab, PHP, C++

- Ground System Design
- Spectral Management
- Noise Cancellation
- Spread Spectrum
- Routing, Switching
- Javascript, Angular
- Linux, Windows, Android

- IP Network Design
- HTS, Wide Beam
- Modulation, Coding
- Quality of Service
- Node.js, Python, Shell
- HTML, CSS
- Process Automation

PROFESSIONAL EXPERIENCE

Four Nines LLC
2013 - Present

Four Nines specializes in Communications Systems design, implementation and operation. Clients include Panasonic Avionics Corporation, Oncall Communications, VT iDirect Inc and General Communications Inc.

Project manager/ Software Architect
- High level design for custom Multiple Access system incorporating multiple vendors.
- Managed several developers from around the world.
- Worked with client to confirm milestones and adapt to changing requirements.

Satellite Systems Engineer/ Software Developer
- Onsite support for deployment of new platform and associated software
- Assisted with existing network support and higher level troubleshooting
- Develop software and API to integrate customer infrastructure with vendor equipment
- Worked with clients and engineers to resolve bugs

Panasonic Avionics Corporation   2011 - 2013

Panasonic Avionics Corporation collaborates with over 300 airlines to provide inflight entertainment and internet connectivity to thousands of aircraft. In addition to the airline industry, Panasonic operates in the Maritime, mining and other industries where remote connectivity is needed.

Lead Network Operations Engineer

- Lead team of 5 engineers and administrators.

- Worked with other groups to develop new site installation procedures and processes.

- Escalation point for lower tier operations administrators.

- Conducted installations and upgrades to network infrastructure and remotes.

Senior Satellite Network Engineer

- Design, develop and support the global satellite network.

- Designed and built full lab for software and system testing.

- Test new software releases to verify compatibility.

- Built tools for tracking and managing space segment.

- Escalation point for operations and other engineering groups.

- Research new technologies and trends in the satellite/telecom industry.

- Compared operational metrics and investigate any discrepancy.

General Communication Inc   2001 - 2010

Provides satellite, terrestrial wireless and wired communication services in Alaska. GCI is the leading connectivity provider in Alaska as well as many other remote locations throughout the US.

RF/ Satellite Engineer

- Lead engineer for large SCPC network utilizing carrier cancellation technology.

- Managed network spectrum allocation and access.

- Tested new software and RF equipment before deployment to network.

- Built install specifications for new sites for microwave, SCPC and TDMA networks.

- High level escalation point for operations and installation groups.

EDUCATION & CERTIFICATIONS

University of Alaska, Fairbanks   2003

    Bachelor of Science, Electrical Engineering – Digital Design emphasis

Cisco Systems, Inc   2012

    Cisco Certified Network Associate (CCNA)