

Scott E. Boone

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STATEMENT

I seek opportunities to help create systems that have a positive impact on society. My core technical competency is in the development of end-to-end computer network and software infrastructure solutions supported by analysis, emulation, and prototyping. I am consistently on time and on schedule, am well-versed in effectively communicating technical concepts to senior management and customers, and have experience working in commercial, government, and research environments.

PROFESSIONAL EXPERIENCE

The Aerospace Corporation, El Segundo, CA (9/2003 – present)

Project Leader – Advanced Concepts Group Networking/Ground (current)

- Technical oversight of network and ground components of AEHF contractor capabilities insertion program for spacecraft network enhancements and associated ground system improvements.
- Development of technical trade space and recommendations for network and ground segments of DoD space-based networks, 2030+.

Project Leader – TSAT Network Mobility and Prototype Network (33 months)

- Represents U.S. Government at Lockheed Martin San Jose and provides direct technical oversight and programmatic guidance of a 60-person contractor team developing the TSAT network architecture and test bed validation. TSAT is a satellite-based military IPv6 network.
- Generates technical analysis and recommendations to resolve network architecture issues including network mobility, large scale peering, multicast, and network management.
- Oversees and technically guides integration efforts between geographically disparate military and research network test beds in order to perform network architecture risk reduction.
- Provides technical tutorials, recommendations, and briefings to TSAT program leadership.

Sr. Member of the Technical Staff (14 months); Project Engineer (25 months)

- Technical working group lead and author of network architecture and requirements for TSAT system mobility architecture, IPv6 addressing and configuration, and transport performance.
- Technical and project lead for a corporate research initiative on problems in space networking.

Agari Mediaware, Santa Monica, CA (04/2002 – 06/2003)

Senior Software Engineer (14 months – company went bankrupt)

- Designed, implemented, and tested components of the Media Bus, a Java JMS-based distributed middleware platform for content application integration. Worked in small teams using extreme programming and design patterns.
- Developed Java performance tests to evaluate Media Bus performance on Weblogic, WebSphere, and JBoss JMS providers; improved performance based on test findings.
- Provided sales engineering support at National Association of Broadcasters conference for prospective client engagements, and for IBM as a partner.

Vidyah, Los Angeles, CA (01/2001 – 04/2002)

Software Architect (15 months – left due to across the board paycuts)

- Managed AdvanceOnline Learning Management System: oversaw production team, client business and technical support, developed backend tool enhancements in Cold Fusion, and edited contracts.
- Implemented chat and backend administrator tool components of the Vidyah media presentation publishing tool in Java, DHTML, CSS, and Javascript on ATG Dynamo.
- Performed requirement analysis and generated resource estimates for client engagements.

iXL, Los Angeles, CA (02/2000 – 01/2001)

System Architect (11 months – Los Angeles office closed)

- Led requirement analysis and software architecture design for several auction and e-commerce websites. Clients included Hot Topic, Frito Lay, Hallmark, and others.
- Supported sales by generating technical proposals and participating in business development.

The Aerospace Corporation, El Segundo, CA (06/1997 – 02/2000)

Member of the Technical Staff (8 months)

- Led a small team to design and develop a working prototype of a distributed information dissemination and discovery system using Java RMI mobile autonomous agents.
- Supported Government program offices by participating in on-site engineering oversight of network deployments and provided technical advice and briefings on ATM and TCP.

Associate Member of the Technical Staff (2 yrs)

- Designed and developed satellite link delay/jitter/loss emulator using native FORE ATM code in C. Using emulator, debugged Solaris TCP performance issues in a customer network and generated a recommendation that resulted in 260% performance gain; this tool was purchased by Lockheed Martin.
- Assisted in architecture and implementation of Aerospace corporate multi-vendor ATM backbone; prepared and briefed course materials for network administrators on use of ATM switches.
- Developed C++ server software for a distributed collaborative scientific visualization tool.

Harvey Mudd College, Claremont, CA (Summer 1996)

Research Fellow: Implemented a multi-vendor ATM LAN and a segment of the CalREN ATM WAN.

INDEPENDENT CONSULTING

Bright Brains, Houston, TX (04/2002 – 12/2003)

- Fixed bugs and provided technical support for the AdvanceOnline Learning Management System.

Hot Topic Corporate, City of Industry, CA (01/2001 – 05/2001)

- Architected and designed integration of the Hot Topic website (MS ISS) with a backend fulfillment system. Responsible for the execution of the integration activity.

SELECTED PRESENTATIONS

“Net-Centricity and TSAT” – Ground Systems Architecture Workshop 2008 tutorial instructor

“Enabling Technologies in Space-Based Networks” AIAA Space 2007 briefer and panelist

“SOA Implementation in Ground Systems” – Ground Systems Architecture Workshop 2007 panelist

SELECTED PAPERS

For the TSAT program office:

- Boone, Scott; A. Hughes. “TSAT Network Integration Risk Analysis”. November 2008, 63 p.
- Boone, Scott. “Tactical User Network Impact on the NGPR RIB”. March 2007, 4 p.
- Boone, Scott; K. Almeroth; K. Adams. “Intermittent Connectivity Impact on TSAT Control Plane”. August 2006, 6 p.
- Hughes, Amy; S. Boone; R. Fischman; H. White. “TSAT Network Mobility Architecture”. April 2005, 52 p.
- Yegenoglu, Ferit; A. Agrawal; F. Faris; S. Boone (ed). “TSAT Intermittent Connectivity”. Mar 2005, 23 p.
- McAuley, Anthony; I. Sebuktekin; N. Lovering; W. Walsh; A. Hughes; S. Boone. “TSAT IPv6 Address and Configuration Plan”. February 2005, 59 p.
- Arnold, Steven; S. Boone; D. Whitefield. “TSAT Terminal Mobility Architecture”. January 2005, 43 p.

TECHNOLOGY

- **Networking:** IPv6, TCP performance, MANET, SAM, mobile topologies and challenges, IP multicast, DiffServ, ARSVP, ATM, DHCP, DHCP-PD, DNS, OSPF, BGP, HAIP
- **Software architectures:** SOA, Message Bus, Autonomous Mobile Agents, RPC/RMI
- **Languages [years]:** Java (JMS, RMI) [5], C++ [2], C [2], XML [3], XSLT [1], SOAP [1]
- **Development tools:** IntelliJ IDEA, cvs, ant, vi
- **Platforms:** JBoss, Weblogic, ATG Dynamo, Tomcat, Cold Fusion, WebSphere
- **Operating systems:** MacOS X, FreeBSD, Solaris, Linux

EDUCATION

B.S. in Computer Science, **Harvey Mudd College**, Claremont, CA (1997)

- Concentration (Minor equivalent) in English Literature
- Dean’s List during final 3 semesters
- Senior clinic project in ATM networking and distributed scientific visualization software
- Independent research in data compression algorithms