

## Scott E. Boone

355 N. Wolfe Rd. #733, Sunnyvale, CA 94085. scott.e.boone@gmail.com [c] 310.951.5451

### STATEMENT

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I have technical and project management experience in both commercial and government environments. My core technical competency is in delivering end to end computer networking and software infrastructure products supported by analysis, prototyping, and experimentation. I am consistently on time and on schedule, and am well versed in effectively communicating technical concepts to senior management and customers. It is important to me that my work makes a positive impact on society.

### PROFESSIONAL EXPERIENCE

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

##### Project Leader (current)

- 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.

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## INDEPENDENT CONSULTING

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

- Fixed bugs and provided technical support for the AdvanceOnline LMS after the site was transitioned from Vidyah, LLC.

**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.

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## 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

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## 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.

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## TECHNOLOGY

- **Networking:** IPv6, TCP performance, mobile topologies and challenges, IP multicast, DiffServ, ARSVP, ATM, DHCP, DHCP-PD, DNS, OSPF, BGP
- **Software architectures:** SOA, Message Bus, Autonomous Mobile Agents, Three-Tier, 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, Win2K

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## 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

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## OTHER

- Active Department of Defense Secret and SCI clearances.
- Experienced telecommuting; also willing to consider relocation to some areas.