

# Scott Andrews

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915 Western Ave.  
Petaluma, CA 94952

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## Summary

Creative, energetic, and innovative internationally recognized executive experienced in general management, systems engineering, advanced product development, advanced technology, business development, strategic planning, and program management

- Vehicle Electrical/Electronics Systems
- Vehicle Information Systems
- Communications Systems
- ITS and Related Industries
- Program and Project Management
- Enterprise Software
- Multimedia/Internet Computing
- Vehicle Safety and Control Systems
- Spacecraft Electronics
- Mobile Information Technology

## Experience

### 12/2001-Present      Consultant

Systems engineering, business development and technical strategy consulting supporting automotive and information technology.

#### Current Engagements:

- Co-Principal investigator for Integrated Advanced Transportation System; research program funded by FHWA
- Technical consultant to ARINC for connected vehicle application systems engineering and development of high precision connected vehicle test bed for FHWA
- Technical consultant to Booz Allen for connected vehicle security credential communications systems analysis for FHWA
- Technical consultant to Booz Allen for connected vehicle safety systems pilot project, for FHWA/NHTSA
- Expert witness for Motorola in a case brought against Microsoft
- Expert witness for VW in a case brought by Beacon, GmbH.
- Expert witness for TomTom in patent infringement cases brought by Harris, SilverState and AOT
- Expert witness for Emtrac in a case brought by GTT
- Expert witness for Ford in a case brought by Medius.

#### Recent Engagements:

- Expert Witness for Volkswagen/Sirius-XM in patent infringement case relating to traffic information systems
- Expert Witness for Pioneer in patent infringement related International Trade Commission matter
- Expert Witness for Volkswagen in patent infringement case relating to the iPod interface
- Chief System Architect for the Vehicle Infrastructure Integration (VIIC) program (BMW, Chrysler, Daimler Benz, Ford, GM, Honda, Nissan, Toyota, VW);
- Expert Witness for Honda in patent infringement lawsuit; 14 asserted patents dealing with telematics equipment interfaces and functions
- Expert Witness for Alpine, Denso and Pioneer Corporation in patent infringement related International Trade Commission matter relating to navigation systems
- Telematics delivery architecture development for a Fortune 100 service provider

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- Technical consultant to the Vehicle Safety Consortium developing Dedicated Short Range Communications (DSRC) standards for safety systems;
- Expert Witness for BMW in patent infringement lawsuit (American CalCar, Inc. v BMW) included prior art search, invalidity & non-infringement reports, rebuttals reports, depositions, etc for 12 patents with 200+ asserted claims.
- Toyota Motor Sales – 10 year technology survey;
- Connected Vehicle Trade Association- Transferred AMI-C specifications to ISO TC 22, TC 204 AND OSGi. Developed OSGi Vehicle Interface Specification;
- Personal navigation device product feature and opportunity analyses for Thales-Magellan and Rand McNally

#### **4/2000 to 12/2001 Cogenia, Inc.**

President and Chief Executive Officer, Founder

Founded company in 2000 to develop enterprise class data management software system. Responsibilities included development of business concept and plan, corporate administration including financial and legal management, leadership of executive team in product development, fundraising, business development, organizational development, and investor relations. Raised \$2.2M between 8/00 and 5/01 from individuals and funds;

#### **1996 to 4/2000 Toyota Motor Corporation, Japan**

Project General Manager, R&D Management Division

Responsibilities included the conceptualization and development of multimedia and new technology products and services for Toyota's future generations of passenger vehicles in the United States and Europe, Heavy emphasis on strategy for information systems, and on development of technical concepts for computing and Internet oriented systems. Working under direction of Toyota board members, established the Automotive Multimedia Interface Collaboration (AMI-C), a partnership of the world's car makers to develop a uniform computing architecture for vehicle multimedia systems, and led all early technical, planning and legal work. Past responsibilities included leading Toyota's US Automated Highway Systems program, management of technical contracts with Carnegie Mellon University Robotics Lab (Image based collision warning systems), and the development of Toyota's position on the US Intelligent Vehicle Initiative.

#### **1983 to 1996 TRW, Inc.**

Held a series of increasingly responsible positions in program management, technology development and business development.

1993 to 1996 TRW Automotive Electronics Group

Director, Advanced Product Planning/Development

Specific responsibilities included leadership and overall management of advanced development programs such as Automotive Radar, Adaptive Cruise Control, Occupant Sensing, In Vehicle Information Systems, and other emerging transportation products; Managed remotely located advanced development laboratory performing approximately \$6M in annual development projects.

1983 to 1993 TRW Space & Electronics Group

Manager, MMIC Products Organization

Developed TRW's commercial GaAs MMIC business. Responsibilities included development of business strategy and business plan, and overall management of customer and R&D programs. Developed extensive international business base and took operation from start-up to \$5M sales per year in under two years. Developed the first single chip 94 GHz Radar (Used for automotive cruise control and anti collision systems).

### **1979-1983 Teledyne Microwave**

Developed high reliability microwave components. Developed CAD tools.

### **1977-1979 Ford Aerospace, Advanced Development Operation**

Designed, tested and delivered microwave radar receiver systems

## **Education**

MSEE Stanford University, 1982

BSEE University of CA, Irvine 1977

TRW Senior Leadership Program 1992

## **Publications**

1. Two Dimensional Vehicle Control for Obstacle Avoidance in Multi-Lane Traffic Environments; Published in the proceedings of the 1998 IEEE International Conference on Intelligent Vehicles.
2. Automotive Multimedia Interface Collaboration; Briefing Presented to the 9<sup>th</sup> VERTIS Symposium, April 1999, Tokyo Japan.
3. Privacy and Authenticity in Telematics Systems; Published in the Proceedings of the Society of Automotive Engineers World Congress, 1999
4. Automated Highway Systems Acceptance and Liability; Briefing presented to the Automated Vehicle Guidance Demo 98 Conference, Rinjwoude, The Netherlands, June 1998.
5. What is Telematics? Briefing presented at IIR Telematics Conference Scottsdale, AZ, December 2001
6. Advanced Telematics Services: A Hard Look at Reality; Briefing presented at IIR Telematics Conference Scottsdale, AZ, December 2001
7. Consumer Electronics and Telematics; Briefing presented at Eye For Auto Telematics Update Conference Las Vegas, NV, January 2003
8. The Automotive Multimedia Interface Collaboration Software and Network Architecture: Extending the Concept of Platform Independent Computing; Briefing Presented to the Future Generation Software Architectures in the Automotive Domain Conference, San Diego, CA, January 2004
9. Quality, Choice and Value: How New Architectures are Changing the Vehicle Lifecycle; Briefing presented at IEEE Convergence Conference, October 2004
10. Critical Standards for the Next Generation of Telematics Systems and Services; Briefing presented at the Telematics Update Conference, December 2004
11. VII System Overview; Briefing presented To Transportation Research Board, ITS and V-HA Committees 2007 Mid-Year Meeting; July 2007

12. Testing and Development of In-Vehicle Equipment and Private Applications (P08-1634); Briefing presented to the Transportation Research Board Annual Meeting, Washington, DC, January 2008
13. A Comparison of Communications Systems for VII; Presented at the ITS World Congress, New York, NY, October, 2008
14. Vehicle Infrastructure Integration Systems Overview; Presented at the ITS America Annual Meeting, June 1 2009, National Harbor, Maryland
15. Telematics Standards: Logical Next Steps; ITS International, August 2009
16. IntelliDrive<sup>SM</sup> Overview; ITS International, May 2009
17. Time Synchronization and Positioning Accuracy in Cooperative IntelliDrive<sup>SM</sup> Systems; Presented at the 2010 ITS America Annual Meeting, June 2010, Houston, Texas

### **Patents**

1. Mobile Body Reporting Device And Its System; Patent Number: JP11118902; 4/30/1999
2. Multiformat Auto-Handoff Communications Handset; Patent Number: US5649308; 07/15/1997
3. A Communications Terminal Device, A Communications System, And A Storing Medium For Storing A Program To Control Data Processing By The Communications Terminal Device; Patent Number: EP0867850, A3; 09/30/1998
4. Communication System For Controlling Data Processing According To A State Of A Communication Terminal Device; Patent Number: US 6122682 3/23/1998
5. Method And Apparatus For Controlling An Adjustable Device; Patent Number: US5864105; 01/26/1999
6. Automatic Brake Device; Patent Number: JP2000108866; 4/18/2000
7. Visual Field Base Display System; Patent Number: JP2000029618; 01/28/2000
8. Intersection Warning System; Patent Number: US5926114; 07/20/1999
9. Security For Anonymous Vehicular Broadcast Messages; Patent Number: US 7742603 3/27/2006
10. Digital Certificate Pool; Patent Number: US7734050 3/27/2006
11. System, Method And Computer Program Product For Sharing Information In A Distributed Framework; Patent Number: US 7802263 12/15/2003

## Scott Andrews Patent Litigation Consulting Clients: 2005-Present

### Defendant Side Cases:

Client: Brooks-Kushman  
Opposing Counsel: Unknown  
Dates: 06/2012-Ongoing  
Topic: Vehicle Infotainment systems  
Case: Medius v, Ford Motor Company  
Role: Prior art search, non-infringement analysis

Client: Riley Wein  
Opposing Counsel: Unknown  
Dates: 05/2012-Ongoing  
Topic: Navigation Systems  
Case: Silver State v. TomTom  
Role: Prior art search, non-infringement analysis

Client: Leffert Jay & Polglaze  
Opposing Counsel: Unknown  
Dates: 01/2012-Ongoing  
Topic: Traffic Signal Preemption Systems  
Case: GTT v. Emtrac  
Role: Prior art search, non-infringement analysis

Client: Kenyon and Kenyon (representing VW/Audi)  
Opposing Counsel: Unknown  
Dates: 11/2011-Ongoing  
Topic: Vehicle navigation systems  
Case: Beacon vs Audi, et al  
Role: Prior art search, non-infringement analysis

Client: Baker-Hosteteler  
Opposing Counsel: Unknown  
Dates: 11/2011-Ongoing  
Topic: Vehicle navigation and real time traffic systems  
Case: Tom Tom vs Harris, and Tom Tom vs Crowd Source Traffic  
Role: Prior art search, non-infringement analysis

Client: Ropes & Gray  
Opposing Counsel: Jones Day  
Dates: 10/2010, Stayed  
Topic: Automotive telematics systems  
Case: Progressive Insurance v. Liberty Mutual Insurance et al (Defendant)  
Role: Technical Consultant  
Activities: Prior art search, invalidity and non-infringement analyses

Client: Morrison and Foerster  
Opposing Counsel: Unknown  
Dates: 9/2011-11/2011(Settled prior to trial)  
Topic: Vehicle navigation and real time traffic systems  
Case: Tom Tom vs Tremontaine  
Role: Technical Consultant  
Activities: Prior art search, non-infringement analysis

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