# **Scott Andrews**

(650) 279-0242

scott@cogenia.com

Petaluma, CA

### Summary

Creative, energetic, and innovative internationally recognized technical 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 Cogenia Partners, LLC

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

Current Engagements:

- Technical consultant for connected vehicle security credential management system deployment; Sponsored by US DOT FHWA
- Technical consultant for mobile device integration with connected vehicle systems. DOT Research and Innovative Technologies Admin. (RITA)
- Expert witness for:
  - ZTE, related to cell phone navigation systems
  - o VW/Audi, related to vehicle WiFi Hotspots
  - Unified Patents, related to mobile device navigation systems
  - Wasica, related to tire pressure monitor systems

Prior Engagements/Projects:

- Developed systems engineering methodology for vehicle E/E systems; Applied methodology on project for Yazaki to reverse engineer the E/E architecture for a 2004 BMW 5 series vehicle.
- Designed novel super capacitor based high performance hybrid vehicle as part of an early stage startup company; Developed performance requirements, conceptual designs and patented integrated electrical system architecture concept.
- Chief System Architect for the Vehicle Infrastructure Integration (VIIC) program (BMW, Chrysler, Daimler Benz, Ford, GM, Honda, Nissan, Toyota, VW); A connected vehicle research program funded by U.S. DOT FHWA.
- Co-Principal investigator for Integrated Advanced Transportation System; A 30+ year future technical feasibility assessment and strategy for U.S. DOT Federal Highway Admin. (FHWA).
- Technical consultant to American Association of State Highway Transportation Officials (AASHTO) for connected vehicle deployment analysis and strategy.
- Technical consultant to Michigan State DOT (Enterprise Pooled Fund) to develop a system architecture and deployment strategy for Rural ITS.
- Telematics delivery architecture development for a Fortune 100 service provider
- Technical consultant to the Vehicle Safety Consortium developing Dedicated

Short Range Communications (DSRC) standards for safety systems;

- 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;
- Expert witness for:
  - o ATT vs. Vehicle IP relating to cell phone navigation systems
  - o VW/Audi vs. Beacon, relating to traffic information systems
  - VW/Audi vs. Blitzsafe relating to mobile device integration and mobile audio systems
  - o T-Mobile vs. TracBeam relating to wireless location technologies
  - VW/Audi vs. Joao relating to remote service architecturesApple Computer vs. Porto relating to cell phone navigation systems
  - Mercedes vs. Adaptive Headlamp Technologies relating to adaptive headlamps
  - Liberty Mutual, Geico and Hartford vs. Progressive Insurance relating to usage based insurance systems
  - Toyota vs. American Vehicular Sciences (AVS) relating to occupant sensing systems
  - Lenovo and Amazon vs. Pragmatus relating to device tracking
  - Ford in a patent vs. Eagle Harbor Holdings relating to Bluetooth systems and mobile device integration in the vehicle
  - o Bentley vs. Cruise Control Technologies relating to adaptive cruise control
  - o Google vs. Walker Digital relating to 3D navigation displays
  - Volkswagen/Sirius-XM vs. case relating to traffic information systems
  - Volkswagen, Ford and GM in patent cases vs. Affinity Labs, relating to the iPod interface
  - Honda vs. American Calcar, relating to telematics equipment and user interfaces
  - Alpine, Denso and Pioneer Corporation in an International Trade Commission patent case vs. Honeywell, related to navigation systems
  - BMW vs. American Calcar, relating to telematics equipment and user interfaces

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

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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. Led automated vehicle Development program leading up to 1997 Automated Highway Systems (AHS) demonstration in Sand Diego, CA; Supported technology acquisition for hybrid vehicle control 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. Provided technical 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

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## **Publications**

- 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.
- Automotive Multimedia Interface Collaboration; Briefing Presented to the 9<sup>th</sup> VERTIS Symposium, April 1999, Tokyo Japan.
- Privacy and Authenticity in Telematics Systems; Published in the Proceedings of the Society of Automotive Engineers World Congress, 1999

- Automated Highway Systems Acceptance and Liability; Briefing presented to the Automated Vehicle Guidance Demo 98 Conference, Rinjwoude, The Netherlands, June1998.
- What is Telematics? Briefing presented at IIR Telematics Conference Scottsdale, AZ, December 2001
- Advanced Telematics Services: A Hard Look at Reality; Briefing presented at IIR Telematics Conference Scottsdale, AZ, December 2001
- Consumer Electronics and Telematics; Briefing presented at Eye For Auto Telematics Update Conference Las Vegas, NV, January 2003
- 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
- Critical Standards for the Next Generation of Telematics Systems and Services;
  Briefing presented at the Telematics Update Conference, December 2004
- VII System Overview; Briefing presented To Transportation Research Board, ITS and V-HA Committees 2007 Mid-Year Meeting; July 2007
- 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
- A Comparison of Communications Systems for VII; Presented at the ITS World Congress, New York, NY, October, 2008
- 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
- Time Synchronization and Positioning Accuracy in Cooperative IntelliDrive<sup>SM</sup> Systems; Presented at the 2010 ITS America Annual Meeting, June 2010, Houston, Texas
- Systematic Development of Positioning Requirements for Vehicle Applications; Presented at the 18<sup>th</sup> World Congress on Intelligent Transportation Systems, November, 2011, Orlando, Florida

Find authenticated court documents without watermarks at docketalarm.com.

- The Interpretation of GPS Positioning Accuracy and Measurement Integrity in a Dynamic Mobile Environment; Presented at the 18<sup>th</sup> World Congress on Intelligent Transportation Systems, November, 2011, Orlando, Florida
- Connected Vehicle Positioning Requirements and Possible Solutions; Presented at the 22<sup>nd</sup> World Congress on Intelligent Transportation Systems, October, 2015, Bordeaux, France
- Connected Vehicle Performance Requirements; Presented at the 22<sup>nd</sup> World Congress on Intelligent Transportation Systems, October, 2015, Bordeaux, France

## Patents

- Mobile Body Reporting Device And Its System; Patent Number: JP11118902; 4/30/1999
- Multiformat Auto-Handoff Communications Handset; Patent Number: US5649308; 07/15/1997
- 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
- Communication System For Controlling Data Processing According To A State
  Of A Communication Terminal Device; Patent Number: US 6122682 3/23/1998
- 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
- Security For Anonymous Vehicular Broadcast Messages; Patent Number: US 7742603 3/27/2006
- 10. Digital Certificate Pool; Patent Number: US7734050 3/27/2006
- System, Method And Computer Program Product For Sharing Information In A Distributed Framework; Patent Number: US 7802263 12/15/2003
- System, Method And Computer Program Product For Sharing Information In A Distributed Framework; Patent Number: US 8566843 12/15/2003
- System, Method And Computer Program Product For Sharing Information In A Distributed Framework; Patent Number: US 8209705 12/15/2003