

Scott Fouse
Owner
Fouse Consulting Services

Scott Fouse is currently the owner of Fouse Consulting Services, LLC, based in Scottsdale, Arizona. He works with a variety of companies and organizations helping them harness advanced technology to enable future products and processes. Most recently he served as the AIAA Aerospace R&D Domain Lead, helping AIAA ensure that their R&D efforts are addressing Aerospace community needs. He is also serving as the Chairman of the Board of the Georgia Tech Applied Research Corporation, a Trustee of the Georgia Tech Research Corporation, Chairman of the Board of Trustees for the Planetary Science Institute, headquartered in Tucson, AZ, A board member of Boston Fusion Corporation, a board member of Aptima Corporation, and an advisor to the ASU Center for Human, AI and Robotic Teaming (CHART) led by Dr. Nancy Cooke and Dr. Jamie Gorman.

In addition to the activities listed above, Mr. Fouse has been collaborating with Curt Carlson, former president of SRI and now principal at The Practice of Innovation. Dr. Carlson has developed a unique approach to Value Creation, and Mr. Fouse has been a collaborator with Dr. Carlson on refining and training the Value Creation methodology.

Scott Fouse retired in April, 2018 from his position as Vice President of the Advanced Technology Center (ATC Labs) at Lockheed Martin Space. In this role, he was responsible for leading an organization of approximately 500 scientists and engineers performing programs in space science and related R&D in adjacent markets. The ATC Labs mission is to provide technology discriminators to Lockheed Martin Space lines of business impacting the success of programs totaling more than \$8B annually. The ATC portfolio covers a diverse set of technologies including space and astrophysics, phenomenology and sensors, optics and electro-optics, telecommunications and photonics, guidance and navigation, modeling and simulation, materials and structures, thermal sciences, and nanotechnology. His responsibilities included nurturing the ATC workforce across this rich technical portfolio and sustaining and growing the organization's capabilities and reputation as a center of excellence in these domains.

Mr. Fouse was the Director of the Lockheed Martin Advanced Technology Laboratories (LM ATL), a position he held from January 2010 to August 2014. In that position he was responsible for all aspects of the organization, which was a premier R&D Organization with 240 people. Prior to that, Mr. Fouse was CTO of the LM ATL. In that position he managed the Internal Research activities and was a liaison to the Lockheed Martin business units as well as the corporate staff.

Mr. Fouse had the opportunity to participate in a number of senior advisory groups. He was a member of the AF Scientific Advisory Board from October 2003 until October 2008. In that role he supported a number of special studies, chaired a study on Experimentation to support Disruptive Innovation, Co-chaired a review of the AFRL Information Directorate in 2005, and also participated in two other Directorate Reviews, the Information Directorate in 2003 and the Munitions Directorate in 2005. In 2012 Mr. Fouse participated in a Defense Science Board study on Technology to Enable Superiority in 2030. In 2006 Mr. Fouse participated in a Defense Science Board study on Information Management to Support Net Centric Operations. Mr. Fouse was a member of the DARPA ISAT group from 2001 to 2004, where he participated in a number of studies. In 2002 he chaired a study group for the DARPA IXO office to define directions for

C2 Research. He also chaired the Joshua advisory group which provided advice to the AF Information Directorate Information Systems Division.

Before coming to Lockheed Martin, Mr. Fouse was President and CEO of ISX Corporation, a 50 person company that specialized in creating and transitioning advanced IT systems to operational use and was the recipient of three Contractor of the Year awards from DARPA. Mr. Fouse was a leader in the DARPA Command Post of the Future project, which created a significant advance in C2 Systems and was the primary C2 system for Iraq at the Corp, Division, Brigade and Battalion echelons from 2004 to 2010. Below are details of the other projects Mr. Fouse played a significant role in, while at ISX.

- Played a lead role in transitioning I3 (Intelligent Integration of Information) to various application areas. One area was BADD (Battlefield Awareness and Data Dissemination). As part of the BADD transition activities, he lead a team of researchers to develop a concept for how I*3 technologies could be used to enhance the functionality of the information dissemination server.
- He was part of a small architecture study group that defined requirements for the Dynamic Data Base, an advanced geospatial database that can provide the common store for many Battlefield Awareness Applications.
- Part of an ARPA study on the application of advanced information technologies to the Theater Medical Information Project. As part of that study, captured the vision of Admiral Koenig (Navy Surgeon General) for the Battlefield Medical Information Architecture.
- Provided technical leadership and project management for the ARPA/Rome Laboratory Knowledge Based Planning and Scheduling Initiative for ISX from 1990 to 1994. The program supported the technology transition process and involved playing the intermediary between the operational users (USTRANSCOM, USCENTCOM, and USPACOM) and requirements and the technology developers. ISX's role also included supporting the development of the technology roadmap, which lays out a timeline of when various technologies will be demonstrated in Integrated Feasibility Demonstrations for the transportation planning domain, as well as the Visionary Demonstration of Graphical Planning Cell. This particular project pioneered the concept of Distributed Collaborative Planning, which is the basis for the Global Command and Control System (GCCS).
- Defined the Functional Requirements for DART, a system for creating and analyzing a transportation plan. The system was developed in 10 weeks at USTRANSCOM during Desert Shield and was deployed to Europe to plan the second wave of the deployment 8 weeks after the start of the project.
- Part of 2 person requirements team for the TARGET system. TARGET is a graphical planning system, initially intended to support Non-Combatant Evacuation operations for US Pacific Command.
- Led an effort to apply decision theory to the problem of business case development. Effort is centered around development of a system, BCASE, which is a highly interactive environment for developing and presenting a Business Case. BCASE is based on the concept of capturing key decisions and objective functions in the form of an executable decision model at the front end of the process, and then using that model to keep the business case development project focused.
- Led the ISX (then Teknowledge Federal Systems) effort in the development of the Tactics Planning Module for the DARPA/Lockheed Pilots Associate program. This effort also included a significant contribution to the overall systems engineering and engineering methodology.

Previous Work Experience

July, 1983 to October, 1984

Technical Director, Aptech Imaging, Palo Alto, CA. Responsibilities included development of Real-time Radiographic Inspection system and support of on-going Image Enhancement services. Developed IBM-PC based image processing system for use in on-site Nuclear Power Station Inspections.

May, 1976 to July, 1983

Senior Project Engineer, Hughes Research Laboratories. Involved in a wide range of advanced architectures to support image and signal processing. This included some very early multi-processor systems, number theoretic signal processors, and a discrete, analog image processing architecture based on charge coupled devices, used for analog signal processing.

Education

Engineer Degree, Electrical Engineering, USC, 1983

Masters Degree, Electrical Engineering, USC, 1978

BS Physics, University of Central Florida, 1976