Exponent
Failure Analysis Associates®

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R. Scott Wofford
Senior Manager

Professional Profile

Mr. Scott Wofford is a Senior Manager in Exponent's Technology Development practice. Mr. Wofford is an engineering professional with over 20 years of experience in designing electronic and optical systems in a controlled and field environment. Mr. Wofford has developed skills in project development and planning with strengths in project management. He has an extensive background in digital and power electronics as well as optical systems for laser beam delivery and fiber optic component design. He has designed systems using skills in embedded logic design and programming, motion control, computer architecture integration, and power management.

Mr. Wofford has fulfilled his role at Exponent as engineer and program manager in both conventional and unconventional ways. After being embedded with the 3rd Infantry Division in Iraq during Operation Iraqi Freedom in the spring and summer of 2003, Mr. Wofford returned to Iraq in 2007 to aid in technology development, transfer, and training of U.S. soldiers under the Army's Rapid Equipping Force program. Mr. Wofford has also been part of Army S&T programs to provide dismounted soldiers with the networked technologies and information resources that help them manage the battlefield. This includes working as a Subject Matter Expert (SME) on the Army's Future Force Warrior and Land Warrior Programs.

Some of Mr. Wofford's product development includes being project lead and lead engineer that developed a wearable x86 class computer for the U.S. military, with internal research and development funds and later financed by U.S. government sponsors. This computer is used in the control of robotic assets in both the Afghanistan and Iraqi theaters of operation. He was also the lead engineer on the U.S. Army Scorpion headgear program that embedded sensors, communications, and display aids in a U.S. Army helmet prototype. Mr. Wofford has worked extensively on the Land Warrior 0.6 and 1.0 programs and was involved in developing a training system for the Land Warrior 0.6 program that was used to demonstrate Land Warrior capabilities. This system was used successfully in key demonstration in both North American and NATO exercises in Europe.

Prior to joining Exponent, Mr. Wofford worked for Polymicro Technologies, Inc where he served as their most senior laser engineer. Mr. Wofford was responsible for developing a multi-axis CNC based laser machining system that used a CO2 laser to make precision components from fused silica multi-mode fiber optics. Mr. Wofford was also responsible for integrating motion control components, computers, PLCs, and various sensors to provide process automation for many of the company's key product lines. Mr. Wofford headed the new hollow waveguide project to leverage licensed technology from Rutgers University into a profitable product.

Academic Credentials and Professional Honors

B.S., Electrical Engineering, Arizona State University (*summa cum laude*), 1997
A.A.S, Applied Science, College of Oceaneering, 1983

Patents

U.S. Patent No. 5,291,570: High Power Laser—Optical Fiber Connection System, 1992.

Project Experience

- Land Warrior 0.6 & 1.0
- Scorpion Bravo Headgear
- Test Bed Wearable Computer (TBWC)
- Objective Force Warrior (OFW)
- Advanced Robotic Controller (ARC)
- Rapid Equipping Force Reactive Support
    - Iraq theater support 2003 & 2007
    - LVUSS Robot
    - DropCam
- Future Force Warrior
- Future Warrior Technology Integration