

**James A. Lott**  
**Chief Technology Officer**  
**OptiPulse, Inc.**

**Education:**

- Doctor of Philosophy in Electrical Engineering (1993), University of New Mexico, Albuquerque, NM, USA
- Master of Science in Electrical Engineering (1987), Air Force Institute of Technology, Wright-Patterson AFB, OH, USA
- Bachelor of Science: Electrical Engineering and Computer Sciences (1983), University of California at Berkeley, Berkeley, CA, USA

**Experience:**

- 2016 to Present Chief Technology Officer, OptiPulse Inc., Albuquerque, New Mexico
- 2012 to 2019 Gastprofessor, Technische Universität Berlin, Zentrum für Nanophotonik, Institut für Festkörperphysik, Berlin, Germany
  - Research on semiconductor materials and devices; mentors students
  - Professor physics and photonics courses
- 2007 to 2012, Chief Technology Officer (CTO), VI Systems GmbH, Berlin, Germany
  - Led research, product development, and technology management and strategy
  - Developed photonics products for up to 40 Gbit/s optical data communications systems
- 2006 to 2007 Principle Engineer, Materials Laboratory, INTEL Corporation, USA (various locations)
  - Led failure/microstructural analysis projects for new product integration
  - Performed fault isolation studies, process analysis, and special engineering support studies on flash memory, cellular processor, and microprocessors
  - Led microstructural analysis teams (SIMS, FIB/SEM, TEM, AFM, etc.) in development of techniques for manufacturing of nanometer scale integrated devices
- 1993 to 2006 Professor of Electrical Engineering and Deputy Department Head, AIR FORCE Institute of Technology (AFIT), Wright-Patterson AFB, OH, USA
- 1988 to 1993 Military Research Associate, Sandia National Laboratories, Albuquerque, NM, USA

**United States Military Service and Professional Military Education:**

- 1983 to 2006 Science and engineering officer in the U.S. Air Force (retired 2006)
- 2000 Air War College – professional military education for wing-level commanders (12 months)
- 1997 Air Command and Staff College (9 months)
- 1984 Squadron Officer School (3 months)

**Dr James Lott has over 250 Research Papers, Submissions to Conferences, and Publications.**