

David Sherrer



Game-changing Technologies for Aerospace, Defense & Industry
Defense & Space

<http://www.directoryinventor.com/profile/view/OF8iCc29>

Experience

President, Founder

Nuvotronics, LLC

11-50 employees; Privately Held; Defense & Space
July 2008 - Present

Nuvotronics is a privately held high-tech company pursuing products in advanced microwave devices for aerospace, defense and commercial application that leverage our unique Polystrata and Si-Pak manufacturing platforms. Specialization is in microwave and mm-wave products and MEMS. See www.polystrata.com and our wafer-level packaging at www.si-pak.com. We manufacture our own materials, make our devices in our microfabrication center, and deliver the tested hardware to nearly all major aerospace and defense contractors and DOD agencies for next generation applications.

Semiconductor Advisory Board / MicrON center

Virginia Tech

Electrical/Electronic Manufacturing
June 2008 - Present

Advisory board member - seeking to help grow and develop the capabilities, specialization, and opportunities for the center.

Director of Product Development / Director of R&D

Rohm and Haas / England

Public Company; Chemicals
2002 - June 2008

New product development and commercialization for microfabricated products. Managed the development of two product platforms: Si-Pak(tm) hermetic laser packages and Polystrata(tm) microwave / mm wave packaging platform originating from DARPA's 3D-MERFS and DMT programs. Oversee research, development, engineering and manufacturing operations for a 6" wafer fab and packaging group specializing in MEMS, wafer-level packaging, laser packaging, optoelectronic devices, and RF devices.

President / CEO / Founder

Haleos

51-200 employees; Privately Held; Telecommunications
August 2000 - September 2002

Manufacturing and product development company for MEMS based fiber optic components and assemblies (silicon bench, optical switches, fiber arrays, pigtailed waveguides, sensors)
Manufacturer of optoelectronics packaging components (metallized fiber, ball lenses, fiber arrays).
Acquired by Rohm and Haas Electronic Materials.

President/ Founder

ACT MicroDevices, Inc

11-50 employees; Privately Held; Semiconductors

July 1996 - August 2000

Silicon Micromachining / MEMS / Microfabrication / Thin-film based products manufacturer for Sensors, Optoelectronics, micro optics. Established and built a 4" MEMS fab. Grew to 35+ engineers and technicians. Re-incorporated as Haleos, Inc after raising venture capital.

Education

Virginia Polytechnic Institute and State University

Electrical Engineering

1993 - 1996

Activities and Societies: Fiber and Electro-Optics Research Center, Eta Kappa Nu

Virginia Polytechnic Institute and State University

Physics

1988 - 1992

Virginia Polytechnic Institute and State University

Philosophy

1988 - 1993

Activities and Societies: Sigma Phi Epsilon

Patents (143)

Devices and methods for solder flow control in three-dimensional microstructures (3 worldwide citation)

David W Sherrer, James R Reid Jr

October 21, 2014: 08866300

Batch fabricated microconnectors (7 worldwide citation)

David W Sherrer, Jean Marc Rollin

August 26, 2014: 08814601

Coaxial waveguide microstructures having an active device and methods of formation thereof (11 worldwide citation)

David W Sherrer, John J Fisher
June 3, 2014: 08742874

Device package and methods for the fabrication and testing thereof (2 worldwide citation)

David W Sherrer, Larry J Rasnake, John J Fisher
April 22, 2014: 08703603

Coaxial transmission line microstructure including an enlarged coaxial structure for transitioning to an electrical connector (22 worldwide citation)

David W Sherrer, Jean Marc Rollin
September 24, 2013: 08542079

Optical device package (1 worldwide citation)

David W Sherrer, Mindaugas F Dautartas, Neil Ricks, Dan A Steinberg
March 19, 2013: 08399897

Optoelectronic component including optoelectronic device flip-chip mounted to substrate and conductor extending through the substrate (2 worldwide citation)

David W Sherrer, Noel A Heiks
November 13, 2012: 08309908

Three-deimensional microstrucutres and methods of formation thereof

William D Houck, David W Sherrer
July 26, 2012: 20120189863-A1

Electronic device packages and methods of formation (38 worldwide citation)

James W Getz, David W Sherrer, John J Fisher
June 19, 2012: 08203207

Coaxial transmission line microstructures and methods of formation thereof

David W Sherrer, Jean Marc Rollin
November 10, 2011: 20110273241-A1

[View all \(143\)](#)