David Sherrer

Founder · Inventor · Deep-Technology Operating Executive

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SHORT BIOGRAPHY

David Sherrer is a repeat deep-technology founder, inventor, and operating executive with two strategic exits, 125+ issued patents worldwide, DARPA Phase I–III program execution, and more than three decades of experience turning difficult physical technologies into funded programs, manufactured products, and acquired companies. He is now assembling an integrated computational-engineering and defense-industrial platform — anchored by MNEOS Systems, NuvoNexus, Helicon Defense, and MacroVation — designed to compound scientific judgment, physical capability, and long-duration capital at institutional scale.

FULL BIOGRAPHY

David founded and led Nuvotronics, developer of the PolyStrata® 3D micro-coaxial process, carrying the technology through DARPA Phase I–III execution, a DARPA Innovation Award, qualified manufacturing, and adoption by major U.S. defense primes, space and satellite programs, and commercial test-and-measurement leaders including Keysight Technologies. Nuvotronics originated in 2006 as the Rohm and Haas Microfabrication business in Blacksburg, VA and was established as an independent operating company in July 2008 through a management buyout; it was acquired by Cubic Corporation in 2019 and the underlying process remains in production. His prior venture, Haleos (a wafer-level optoelectronic packaging company), was acquired by Rohm and Haas Electronic Materials (subsequently Dow) in August 2002.

Today he is founder and CEO of NuvoNexus, LLC — the strategic holding and operating platform for the current portfolio; founder of **MNEOS Systems**, the long-lived computational-engineering institution being built under NuvoNexus (initial operating center: Fairlawn, Virginia); founder of **Helicon Defense**, the U.S.-based transition platform for selected Ukrainian and allied defense technologies; and president and CEO of **MacroVation, LLC**, the operating defense-materials and applied-R&D company executing multiple active federally funded programs across the U.S. Marine Corps, NAVSEA, and Office of Naval Research. He also serves as an advisor to Phase Shift Ventures.

The current work is to build a permanent operating platform for physical-world engineering and defense-industrial innovation — an institution designed to compound over decades rather than trade capital for a single product cycle.

RECORD

- **Two strategic exits** — Haleos to Rohm and Haas Electronic Materials (2002); Nuvotronics to Cubic Corporation (2019)
- **125+ issued patents worldwide** across microfabrication, RF and microwave systems, wafer-level packaging, and materials
- **DARPA Phase I–III execution**, including the DARPA Innovation Award (3D-MERFS / PolyStrata®)
- **Multiple products moved into qualified manufacturing** at production scale for defense and commercial customers
- **Multiple active federally funded defense programs** currently executing at MacroVation (USMC, NAVSEA, ONR)
- **Research and production infrastructure** established in Virginia and Florida; teams built across engineering, manufacturing, and government-program roles

CURRENT INSTITUTIONAL FOCUS

Building MNEOS Systems as a long-lived computational-engineering institution that integrates human scientific judgment, artificial intelligence, computational physics and simulation, materials, advanced manufacturing, robotics, sensing, experimental evidence, and institutional memory into one governed engineering environment. Governed by NuvoNexus, LLC. Running on DOS (David Operating System), the governed computational substrate. Doctrine: *AI proposes. Humans judge. Evidence constrains. Governance controls. Memory preserves. Execution is structured.*

CONTACT

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