

CV, JAMIE CHAPMAN

Overview Dr. Chapman is a broadly-experienced manager of people, programs and technology-driven businesses. His career and activities have spanned the industrial, academic, governmental and legal arenas in the US, Europe and Asia. Dr. Chapman provides strategic, technical and engineering advice and support to companies, federal laboratories, agencies and law firms. He has been heavily involved with clients in program definition and funding together with the associated development of technology-intensive, multi-disciplinary product systems.

Formal Education: B.A., Physics, University of California, Santa Barbara
M.S., Physics, Case Institute of Technology
Ph.D., Massachusetts Institute of Technology

Wedge Global, LLC Chief Innovation Officer, 2013-present System innovation & integration

Time-Variable Systems LLC, Texas and New York, 2011-present The principal vehicle through which Dr. Chapman provides services. Recent clients have included Exro Technologies, the National Renewable Energy Laboratory, law firms and technology-intensive product development companies in the US and internationally. A major focus has been on innovative electric machines, variable-speed electric generators, marine hydrokinetic power conversion systems, radar sensing and megawatt-scale power processing and control via power electronics.

Vestas R&D Americas, Inc., Houston, Texas, 2010-2011 Senior Director, Advanced Technology Systems. This advanced R&D unit was focused on the technologies needed to maintain leadership for the next, next generation of multi-megawatt wind turbine power plants, including turbulence detection by lidar and radar. Four patent disclosures.

Texas Tech University, Lubbock, Texas, 2004-2010 Associate Director, Wind Science and Engineering Research Center; Senior Research Faculty. A principal in achieving \$10 million in external funding to implement a wind energy research and education program. Delivery of a graduate-level course on wind turbine design, control, grid interface and economics. Initiator of Texas Tech's program on the integration of wind turbines with desalination systems.

OEM Development Corporation, Founder and President, Boston, Massachusetts, 1991-2006. Provision of design, engineering and prototype production services for wind turbine, photovoltaic, flywheel, radar-based traffic control and high-voltage xenon flash systems. Two patents on wind turbine design involving generator-rotor integration and control. Other activities: field test of wind turbines, service as an expert witness in patent and product non-performance litigation. Consultant to the Electric Power Research Institute, Southern California Edison, the Fraunhofer Institute of Germany, the European Commission (EC), US Department of Justice and others. Service on USDOE and NREL review panels.

Kenetech Windpower/US Windpower, Boston and California, Vice President, Engineering, 1982-1988. Responsible for the design of the first US-manufactured variable-speed wind turbines deployed in large grid-connected arrays (windfarms). Major involvement in the design, manufacture, installation, operation and maintenance of 4000 wind turbines, representing more than a half billion dollars worth of product. Responsible for organizing and executing a consortium (with EPRI and PG&E) for the joint funding and development of the first variable-speed prototype. Service on National Academy of Science committee on wind research needs for wind turbine materials. Extensive invited travel to the People's Republic of China, including visits to most provinces. Extensive travel to Europe.

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