

17168 Owens Drive
King George, VA
22485

Phone (540) 663-3302
Fax (540)663-3302
E-mail jshort.sjsinc@gmail.com

John Short, Ph.D., P.E.

- Education**
- 1973 - 1978 Va. Tech Blacksburg, VA
B.S. in Engineering Science and Mechanics
- Co-Op student at NSWC during entire undergraduate career
- 1980 - 1981 Va. Tech Blacksburg, VA
M.S. in Engineering Mechanics
- NASA/Langley Research Fellow
 - Thesis topic: Thermal expansion coefficients of Gr/Ep composites measured in a space environment using laser interferometry.
- 1985 - 1988 University of Utah Salt Lake City, UT
Ph.D. in Mechanical Engineering
- Rolls Royce Research Fellow
 - Phi Kappa Phi National Graduate Honor Fraternity
 - Associate Research Instructor in Mechanical Engineering
 - Dissertation Title: Crack Propagation Thermodynamics
 - Five Peer Reviewed Journal Articles published regarding dissertation
- Professional experience**
- 1978-80, 1981-84 Carolina Power and Light, Co. Raleigh, NC
Project Engineer
- Developed and maintained computer codes for prediction of power system operating costs and remaining useful life of central station power generating equipment.
 - Performed failure analysis investigations of power generation, transmission and distribution equipment.
- 1988 - 1989 Failure Analysis Associates Palo Alto, CA
Principal Engineer
- Performed and supervised the conduct of failure analysis investigations of industrial equipment and processes.
 - Developed computer codes for prediction of industrial equipment remaining useful life.
- 1989 - 1990 King George County King George, VA
County Engineer
- Had administrative, technical and budgetary responsibility for Building and Zoning Departments and all county facilities including county buildings, water and sewer facilities and the county landfill.

1990 - 1994 University of Utah Salt Lake City, UT

Adjunct Assistant Professor

- Taught undergraduate and graduate Civil and Mechanical Engineering Courses. Full time during '90-'92 and half time thereafter.
- Received Dean's Commendation for outstanding teaching performance during '91-'92 academic year.
- Courses taught included Statics, Dynamics, Mechanics of Materials, Structural Analysis, Earthquake Engineering, Numerical Analysis, Reliability Engineering and Finite Element Analysis.

1990 - 1994 Radius Engineering Salt Lake City, UT

Engineering Manager

- Directed development of products, manufacturing processes and manufacturing equipment for advanced composite sporting goods and aerospace vehicle components.
- Project engineer during development and production startup for the Trek 5000, a composite road bike frame that is still the lightest production bicycle frame in the world.
- Directed development and installation of state of the art Resin Injection Molding Equipment used for advanced composites manufacturing research at Boeing and NASA.

1994 - Present SJS, Inc. King George, VA

Consulting Engineer / Entrepreneur

- Contract instructor for National Technology Transfer, Inc. NTT is a nationally known industrial technology training company with headquarters in Englewood, CO. NTT offers "hands on" laboratory intensive training both at customers' facilities and in "open enrollment" hotel based seminars. I regularly teach in both venues. My instructor evaluations in both venues are consistently between 3.6 and a 3.9 on a four-point scale. (3 – good, 4 – excellent).
- Designed, built and operate Community Storage of Dahlgren, a 30,000 square foot self-storage facility and U-Haul rental center. Community Storage, located at the above address, also houses my engineering office.
- Developed, designed and currently market GATEASE!, an innovative self-storage gate access control system. This software/hardware system is based on a Visual Basic control program and GUI designed to run in the background on a self-storage facility's management computer. The GATEASE! system thus eliminates the need for a separate PC to provide gate access control.
- Provide Mechanical and Civil Engineering design consulting services to a variety of clients in both local government and the private sector.