

Resume of Kerry M. Soileau  
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Date of Birth: 8 June 1956  
Citizenship: USA

B.S., Mathematics, June 1976, University of Central Florida

M.S., Mathematics, May 1980, Louisiana State University

PROFESSIONAL EXPERIENCE: Shuttle Mission Operations: 5 years in the following capacities in the Mission Control Center: Operations Integration Officer (one flight); Trajectory Officer (four flights); Flight Dynamics Officer (four flights).

Management: 5 years - As Mission Control Center operator, managed flight dynamics backroom support team. Served as Acting Head of Advanced Programs Integration Section.

Teaching: 2 years - As teaching assistant at LSU, taught all levels of mathematics through calculus.

Computer Languages/Software: 22 years – Java, XML, XSL, BASIC, C, C++, CLIPS, FORTRAN 77, LISP, PROLOG, ICON, HPL, LATEX, Mathematica.

PROFESSIONAL ACHIEVEMENTS: While an undergraduate, contributed to a paper on the shape of a rotating fluid (American Journal of Physics.) Wrote Master's thesis on root distributions of reduced cubic polynomials with distributed coefficients.

Publications: Stern, S. A. and Soileau, K. M., "Operational Implications for Path-Constrained Rendezvous," Proceedings of the AIAA Guidance, Navigation and Control Conference, Snowmass, CO, August 19-21, 1985, pp. 812-820. Soileau, K. M. and Stern, S. A., "Path-Constrained Rendezvous: Necessary and Sufficient Conditions," Journal of Spacecraft and Rockets, Vol. 23, September-October 1986, pp. 492-498. Stern, S. A. and Soileau, K. M., "Inadequacy of Single-Impulse Transfers for Path-Constrained Rendezvous," Journal of Spacecraft and Rockets, Vol. 24, May-June 1987, pp. 282-284. Soileau, Kerry M., "Defining Optimal Point-to-Point Transfer Surfaces for Orbital Path-Constrained Rendezvous," Proceedings of the AAS/NASA International Symposium, Greenbelt, MD, April 24-27, 1989, pp. 103-107. Soileau, Kerry M., "Formulae for the Statistical Interrelationships Between Several Orbital Parameters of Particles in the Oort Cloud and Other Orbiting Aggregates," Celestial Mechanics and Dynamical Astronomy, Vol. 49, No. 1, 1990, pp. 11-29.

HONORS: Nominated LSU Outstanding Teaching Assistant, 1980. Awarded NASA Sustained Superior Performance Award, 1987. Received NASA Group Achievement Award, for STS-26 Preparation and Support. Was the only Mission Operations Directorate person to be selected to present a paper at the World Space Congress held in Washington, D.C. during August 28-September 5, 1992. Received NASA Space Act Award, 2007.

EMPLOYMENT HISTORY: Currently retired from federal service. 6/80-6/11: NASA Johnson Space Center, Houston, TX; Aerospace Technologist; currently at International Space Station Avionics Office. 5/79-9/79: NASA Johnson Space Center, Houston, TX; Aerospace Summer Intern; STS Operations Integration. 9/79-5/80. 11/87-present: President, Positronic Software, Houston, TX; Software Development and Marketing.