

Daniel Kirk, Ph.D.

Professor | College of Engineering and Science at Florida Tech

Melbourne, FL, US

Dr. Kirk's research focuses on air-breathing propulsion and rocket propulsion, and additive manufacturing for aerospace applications.

About

Dr. Daniel R. Kirk completed his Ph.D. and a post-doctoral fellowship at the Massachusetts Institute of Technology in the Department of Aeronautics and Astronautics under a National Science Foundation Fellowship. He joined Florida Tech in 2004 and is currently a professor in the Department of Aerospace, Physics and Space Sciences. Dr. Kirk's research interests focus on air-breathing and rocket propulsion, experimental and computational fluid dynamics, and advanced and additive manufacturing for existing and new aerospace applications. He has obtained over \$4 million dollars in external funding, produced over 80 conference and journal publications, served as a visiting scholar at NASA Marshall Space Flight Center and NASA Kennedy Space Center and managed research projects with NASA, the U.S. Air Force and the Office of Naval Research. In collaboration with NASA and MIT, Dr. Kirk's research group has directed experiments onboard the International Space Station to study how liquid propellant slosh behavior affects the dynamics of rocket motion.

Areas of Expertise

Aerospace Applications, Rocket Propulsion, Rocket Science, Fluid Mechanics, Fluid Dynamics

Affiliations

National Engineering Honor Society, Tau Beta Pi

Education

Massachusetts Institute of Technology

M.S. Aerospace, Aeronautical and Astronautical Engineering

Massachusetts Institute of Technology

Ph.D. Aerospace, Aeronautical and Astronautical Engineering

Rensselaer Polytechnic Institute

B.S. Mechanical Engineering

Accomplishments

Society of Automotive Engineers (SAE) Ralph A. Teetor award
2008

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