



Mitchell Rodriguez

Graduate Research Assistant

Department of Mechanical and
Aerospace Engineering



BIO:

Mr. Mitchell Rodriguez completed his Master's in Mechanical/Aerospace Engineering this spring and is also pursuing his PhD in Mechanical/Aerospace Engineering. The work involves developing modeling and simulation tools for ablation interfaces and high-energy plasma physics. This work is being performed in the Propulsion Research Center at UAHuntsville. In 2012, Mitchell was selected to present papers at the 63rd International Astronautical Congress, and presented material related to fusion power for spacecraft propulsion.

Mitchell is a member of ASME and the Sigma Gamma Tau Honor Society.

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RELEVANT PUBLICATIONS:

1. Rodriguez, Mitchell. "Materials Selection Considerations for Z-Pinch Pulse-powered Fusion Systems for Space Propulsion," presented at the 63rd International Astronautical Congress, October 2012
2. Rodriguez, Mitchell. "Materials Selection for Neutron Reflectors in Nuclear Fusion Reactor Systems," presented at the 63rd International Astronautical Congress, October 2012
3. Rodriguez, Mitchell. "FIREFLY – Fusion-powered Interstellar Rendezvous and Exploratory Flying Laboratory," presented at the 63rd International Astronautical Congress, October 2012
4. Rodriguez, Mitchell. (2010) "Developing Functional Inks for Direct-Write Systems," Vol. No. 4, pp. 43-46, 2010.