



## Kevin Schillo

Graduate Research Assistant

Department of Mechanical and  
Aerospace Engineering



### BIO:

Mr. Kevin Schillo is currently pursuing an MS in aerospace systems engineering that he plans to complete by December 2013, after which he will begin work on his PhD. Kevin's research is focused on designing pulsed magnetic nozzles for fusion propulsion applications.

In the summer of 2012, Kevin led a team of research associates at the NASA Robotics Academy to design a solar sail spacecraft that utilized novel attitude control and propulsion capabilities.

During his undergraduate studies, Kevin was a key member of the KnightSat II project, UCF's entry in the sixth iteration of the University Nanosatellite Program. Kevin was responsible for creating orbital simulations of the satellite as well as designing and building the attitude determination and control system

Upon completion of the UNP competition, Kevin and the project manager of KnightSat II co-wrote a research paper on their satellite that was selected as one of six participants in the Frank J. Redd Student Scholarship Competition at the Small Satellite Conference at Utah State University. At a time when the competition received a record number of entrants from all across the country, Kevin and his co-author were the only undergraduate students selected to participate, with all of the other participants being graduate students.

### Contact Information:

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### RELEVANT PUBLICATIONS:

Kevin Schillo and Christopher Valle, "Analysis of the Performance Characteristics of a Gossamer Sail for Nanosatellite Applications," in *Small Satellite Conference*, Logan, UT, 2011.