Michael Dylan Gerding

376 Maplewood Drive, Saint Johns, Florida 32259 | 904-521-6560 | dylangerding@ufl.edu

**Education:** **University of Florida**, Gainesville, Florida

 Bachelor of Science in Aerospace Engineering

Bachelor of Science in Mechanical Engineering

 Minor in Business Administration (coursework complete)

Current GPA – 4.0

Expected Graduation May 2018

**Clearance Level:** **Secret:** Granted interim DOD Security Clearance April 2016

**Relevant Course Work:** Design & Manufacturing Lab, Computer Aided Design, Computer Programming for Engineers - MATLAB, Mechanics of Materials, Thermodynamics, Engineering Mechanics – Statics, Numerical Methods of Engineering, Materials, Dynamics, Fluid Mechanics, Controls, Aerodynamics, Vibrations, Aerospace Structures, Astrodynamics, Heat Transfer, Mechanical Design, Dynamics & Controls System Design Lab

Fall 2017 Courses: Stability and Control of Aircraft, Aerospace Design, Manufacturing Engineering, and Compressible Flow

**Honors:** **Society of American Military Engineers Scholarship** 2013, 2015, 2016, 2017

**UF Anderson Scholar with Highest Distinction:** 2015

**UF John B. Boy / US Sugar Scholarship:** 2017

**Experience:** **Northrop Grumman Aerospace Systems**, El Segundo, California

 *Vehicle Engineering – Returning Intern, May – Aug. 2017*

* Developed an understanding of the F/A-18 Stress program for maintaining the F/A-18 aircraft fleet.
* Contributed to the stress team by completing trade studies, fatigue analysis, and static analysis.
* Worked with various forms of software including FEMAP, CAESAR, Lifeworks, and SLAPgen

**Northrop Grumman Aerospace Systems**, Melbourne, Florida

 *Electronics & Payloads Technical Intern (Avionics Subsystems) May – Aug. 2016*

* Developed an understanding of the Total Systems Engineering Requirements (TSSR) program for maintaining the Joint STARS aircraft fleet
* Contributed to the Field Service Engineering Request (FSER) process, including the entering of status for weekly reporting and final approval
* Worked with the TSSR team to provide technical solutions

**Gator Billiards Club**, University of Florida, Gainesville, Florida

*President Apr. 2015 – Present, Treasurer*, Apr. 2014- Apr. 2015

* Developed and presented the initial budget for this newly-created club and obtained full funding from the Student Government Budget Committee
* Facilitated the allocation and control over organizational funds
* Developed marketing and promotional material to increase membership

**Walmart Corporation**, Jacksonville, Florida

 *Stockman and Courtesy Associate*, Jun. - Aug. 2014

* Handled duties related to ensuring carts were available for customers

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**Research:** **DebriSat**, University of Florida, Gainesville, Florida

*Team Member June 2015 – April 2017*

* Participated in laboratory-based hypervelocity impact experiments on a representative, modern LEO satellite
* Characterize the physical properties of impact fragments to improve satellite breakup models and space situational awareness

**Community Service: Beaches Fine Arts Series**, Jacksonville Beach, Florida

*Student Volunteer*, Aug. 2010 – Aug, 2015

* Worked as a team-lead at fundraising events, world-class free concerts, and related educational outreach programs each year

**Computer Skills:** Microsoft Office Suite, Solidworks, MATLAB, System Took Kit (STK), FEMAP, CAESAR, Lifeworks, and SLAPgen

**Certification:** Analytical Graphics Inc. - STK Level 1