

# JUSTIN WAWRZYNIAK

## Present Address

1367 Warrior Way  
Tallahassee, FL 32304

Jmw13m@my.fsu.edu

(407) 618-4694

Clearance Level: Interim Secret

## Permanent Address

311 N Ranger Blvd  
Winter Park, FL 32792

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## Education

Florida State University, Tallahassee, FL  
**Bachelor of Science in Mechanical Engineering**  
Overall GPA: 3.94

*Expected Graduation:*  
May 2018

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## Experience/Research

Northrop Grumman Corporation, Melbourne, FL

May 2017 – August 2017

### College Intern Technical – Global Operations

- Learned importance of time management and prioritizing of tasks by assisting on multiple projects simultaneously.
- Worked as a project liaison between the aircraft mechanics, back-shop personnel, and engineers to further develop an understanding of the manufacturing process critical to delivering safe and reliable aircrafts.
- Applied coding and CAD knowledge to debug innovative software to ensure 3D models met NGC producibility standards prior to costly improper fabrication.
- Responsible for the design, creation, and installation instructions of a cargo bay power systems mounting structure.

Northrop Grumman Corporation, Melbourne, FL

May 2016 – August 2016

### College Intern Technical – Global Operations

- Seized an amazing opportunity to work with a specialized project group testing the reliability of the new wing configuration of the E-2D Advanced Hawkeye aircraft customized for the Japanese government.
  - Used strong communication and problem-solving skills to quickly adapt to the dynamic and complex environment of large scale aircraft manufacturing.
  - Utilized NX and extensive knowledge of CAD software to design the wing-fold and wing-tip tubing support structures for the fuel “slosh test” rig which tested the reliability of the new E-2D Advanced Hawkeye wing configuration.
  - Conducted engineering drawing revisions and created detailed work instructions for the top-most level assemblies.
  - Developed code/scripts to automate SAP input (Bill of Material, Material Master, etc.) for large assemblies with numerous of parts resulting in swifter completion of tasks.
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## Projects/Relevant Coursework

### Drone Disabling Device Capstone Project (In Progress)

- Tasked with the design, development, fabrication, and validation of a device intended to secure a small airspace from typical household drones with cameras or carrying IEDs which pose a threat to public or military safety.
- Opportunity to improve understanding of systems integration and electronic hardware through the development of the detection system, control system, and neutralization system of the device.
- Voted project manager by team due to experience in leadership roles and hard work ethic.

### Parking and Reversing Turning Aid for Vehicles Design Project

- Lead a team that successfully designed a product as an economical accessory for older vehicles that allowed for easier parking and reversing using low-cost cameras and sensors.
- Expanded knowledge of the design process by developing a product from scratch up through concept selection.
- Achieved the top team out of 16 others for every single week demonstrating strong leadership skills.

### Automated Aircraft Takeoff and Landing Simulation Design Project

- Team designed a mechatronic system that simulates flight automation. Each stage of flying was simulated in this project, from takeoff to landing.
  - Software was written in C programming language and implemented using HCS12 microcontroller (Dragon12 Plus) and various motors, switches, and sensors were used as inputs and outputs.
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## Computer Skills

**Coding Experience:** MATLAB, C, Python, and C++ coding

**3D CAD Design Experience:** Pro-E, SolidWorks, NX, AutoCAD

**Additional Experience:** SAP, MES, Minitab, Microsoft Office programs (Excel, Word, PowerPoint and Outlook)

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## Memberships

Florida State University Honors Society, *August 2013 – Present*

Society of Hispanic Professional Engineers (SHPE), *September 2015 – Present*