

Meghan Hatzipetro

MHatzipetro310@g.rwu.edu

PROFESSIONAL EXPERIENCE

Pratt & Whitney | East Hartford, CT

Aerothermal Systems Engineer

July 2017 – May 2019

- ❖ Analyzed micro-level bearing compartment thermals for commercial and military jet engines to prevent auto-ignition and coking events
- ❖ Designed and managed a lubrication system for a military engine by providing supplier and cross-team support to ensure proper systems integration and handling of systems level requirements
- ❖ Led real time ground control as a systems lead during comprehensive aircraft propulsion tests
- ❖ Supported engine validation as the subject matter expert by providing real-time feedback and assisting technicians in troubleshooting
- ❖ Created an autonomous engine monitoring program using apache spark and python to ensure engine health and safety via 60 parameters checked daily and compared across various engines
- ❖ Used big data to construct multivariate regressions to predict in-field engine failures
- ❖ Programmed logic to flag automatic trigger of system maintenance
- ❖ Developed a program to improve system modeling methods of non-homogenous compressible flow using a combination of C++, Fortran, VBA, and Simulink

Sikorsky | Stratford, CT

Quality Intern

June 2016 – September 2016

- ❖ Developed the Quality Plan for the Bridgeport Relocation
- ❖ Assisted in Product Quality Deficiency Reports
- ❖ Completed First Article Inspections

Pratt and Whitney | East Hartford, CT

CTSC Operations Intern

June 2015 – September 2015

- ❖ Assisted in a DIVE resulting in a savings margin of approximately \$500,000 per year
- ❖ Won the Intern Networking Competition
- ❖ Ran return on sales statements

TECHNICAL SKILLS

PROFICIENT

- ❖ SolidWorks Modeling & Simulations
- ❖ MATLAB
- ❖ Microsoft Office
- ❖ C++, Python, VBA, Fortran, SQL

BASIC

- ❖ Russian, Spanish
- ❖ Machine Learning (R Language)
- ❖ AutoCAD
- ❖ ANSYS

EDUCATION

Bachelor of Science in Engineering

Roger Williams University | Bristol, RI

2017

ABET Accredited

Specialization: Mechanical Engineering GPA: 3.60

Minor: Mathematics

AWARDS AND RECOGNITION

- ❖ Excellence in Engineering (Pratt & Whitney) 2018
 - ❖ TALON (Team Achievements Leveraging Outstanding Support) 2018
 - ❖ Intelligent Ground Vehicle: Rookie of the Year 2017
 - ❖ Vanasse Hangen Brustlin Inc Scholar of the Year 2015-2016
 - ❖ Excellence in Engineering (RWU) 2013
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