ANTHONY GRANATA

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Hard-working and enthusiastic upcoming graduate of RPI Aeronautical Engineering bachelor's degree program seeking an entry-level aerospace engineer position. Academic studies have provided a foundation in aerodynamics; structural dynamics; systems design and testing; flight mechanics and controls; 2D and 3D CAD design tools and simulation; and numerical coding methodologies.

EDUCATION

Rensselaer Polytechnic Institute (RPI) - *Troy, NY (Expected May 2023)* — 2019-2023

Bachelor of Science Aeronautical Engineering (GPA 3.2)

Rensselaer Leadership Award

Rensselaer Recognition Award

Deans Honor List

Undergraduate Reseach Assistant (2022 - PRESENT)
- Assisting in research pertaining to Synthetic Jet Actuation for flow control and Vortex Structure Analysis on Swept and Tapered Wings.
- Creating 3D wing models with NACA 0015 airfoil cross sections for water tunnel testing.
- Assisting in setting up Particle Image Velocimetry (PIV) cameras for wind and water tunnel testing.

WORK

New York Property Insurance Underwriting Association — 2017-2022

Automation Specialist (2020 - 2022)
- Translated business requirements into automated regression scripts used to save time and reduce errors in the development and maintenance of nypiua.com.
- Contributed to the creation of more than 500 new automated scripts into NYPIUA's regression test bed.
- Achieved 90% test automation coverage to execute end-to-end regression tests repeatedly.
- Increased production quality, measured by 35% less defects and 40% less rework on the project.
- Led, automated, and implemented into production a script to verify and standardize data used for daily mortgagee communication, enabling 100% compliance, and ensuring invoices were paid to avoid insurance cancellations.
- Collaborated with team members focused on software development and quality assurance on all Agile/Scrum processes including sprint planning, daily scrums, sprint reviews and retrospectives.

Infrastructure Technician (2017 - 2019)
- Converted process flows from Adobe Acrobat to Perforce Gliffy for business automation.
- Contributed to a company-wide enterprise hardware and software refresh project.

LEADERSHIP

Engineering Design - Water Wheel Filtration Device
- Led group of 4 students in planning, problem & customer needs identification, performance specifications analysis, and concept generation for a water filtration device powered by a waterwheel.
- Design allowed for 5 gallons of clean water per hour with 30 gallons of storage.

Finite Element Analysis – Differential Gear Analysis
- Led group of 2 students in an analysis of a differential gear to determine the most efficient gear design and element meshing strategy.

SKILLS

Siemens NX	MATLAB	Microsoft Office
NASTRAN	Simulink	Leadership
Python	Teamwork & Collaboration	Agile & Jira

VOLUNTEER WORK & EXTRACURRICULAR

- Intramural Basketball and Basketball Tournaments (2021 - Present)
- NYC Battens Chapter, Battens Disease Support and Research Association (BDSRA) (2013 - 2020)
- Transplant Support Organization of Staten Island (TSO) (2012 - 2020)