

Caitlyn A. Slezak

slezac@rpi.edu

Objective:

To gain hands on experience in an engineering environment and to better my knowledge and understanding of the aeronautical engineering field.

Education:

Rensselaer Polytechnic Institute – Troy, New York
Bachelor of Science in Aeronautical Engineering

GPA: 3.72/4.0
Expected Spring 2019

Research:

Center for Flow Physics and Control

Active Flow Control

Spring 2017

- Will aid in the experimentation of 3-D flow separation over 3-D geometries by constructing a new water tunnel, test fixtures, and conducting water tunnel experiments
 - Experiments include dye flow visualizations and Particle Image Velocimetry to provide information on the behavior of flow under various conditions and the formation of 3-D separation cells
 - Will analyze data using MATLAB and will design parts for experiments using 3-D CAD software
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Relevant Coursework:

Thermals and Fluids Engineering I

Spring 2017

- Will learn applications of control volume balances of mass, momentum, and energy; as well as fluid statics, heat transfer in external and internal flows, and radiative heat transfer

Fundamentals of Flight

Spring 2016

- Learned elements of fluid mechanics, thermodynamics, heat transfer, and aerodynamics

Engineering Graphics and CAD

Spring 2016

- Learned techniques for creating solid models of engineering designs
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Work Experience:

Raphael & Associates

Rutherford, New Jersey

Clerical Intern

Summer 2016

- Proofread and reviewed engineering reports pertaining to property loss and insurance claims
 - Worked with the accounting department in reconciling bank statements, releasing checks, entering bills, and following up on outstanding invoices
 - Assisted in all office related tasks including mailing, filing, and answering phones
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Leadership:

Rensselaer Polytechnic Institute – Residence Life

Fall 2017-Spring 2018

Resident Assistant

- Responsible for community development in a residence hall where as many as 70 students live
 - Responsibilities include planning and implementing programs, crisis intervention, confronting policy violations, and conducting monthly health and safety inspections
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Skills:

- Excel, NX, SOLIDWORKS, MATLAB, AutoCAD, QuickBooks, Microsoft Office, ImageRight, FileHandler
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Honors and Awards:

- Dean's List – Rensselaer Polytechnic Institute *2015, 2016*
 - American Legion Auxiliary New Jersey Girls State Delegate *Summer 2014*
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