

PATRICK SYPNIEWSKI

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EDUCATION

<u>University of Michigan</u> , Ann Arbor, MI BSE in Aerospace Engineering Expected early graduation, December 2017 Accumulative GPA: 3.1/4.0	9/14 – Present
<u>North Central Michigan College</u> , Petoskey, MI GPA: 4.0/4.0	9/12 – 5/14

EXPERIENCE

<u>Aerospace Engineering Intern</u> Detroit Aircraft Corp. Detroit, MI ➤ Conducted computational fluid dynamics of a revolutionary new aircraft design to acquire the aerodynamics and loading forces acting on the craft. ➤ Provided input to improve aircraft design so as to produce the most efficient product including structural optimization and aerodynamic effectiveness. ➤ Spoke with numerous consulting persons and organizations to review the progression of the design and analysis process. ➤ Wrote reports and presentations to discuss any aerodynamic findings and recommendations.	1/8 – Present
<u>Technician</u> University of Michigan Aerospace Laboratory Ann Arbor, MI ➤ Repaired research aircraft structure and electrical system. ➤ Constructed and programmed research equipment to collect in-flight pressure data	9/14 – 5/15

SKILLS AND QUALIFICATIONS

Experience in hands-on design, build, test cycles including blimp, hovercraft, and aircraft testing and fabrications, involving programming and constructing new innovative systems in a competitive setting.

- Group Coordination and Project Management and Planning.
- Systems Installation and Integration.
- Design Configuration and Strategy.
- Craft Simulation and Testing Diagnostics.

Proficient in a variety of software suites including drafting, simulation, and programming.

- Catia V5
- STAR-CCM+
- Microsoft Office Applications
- C/C++
- Arduino
- MATLAB

Extensive involvement in public presentation and demonstration, conveying complex and specialized ideas to the general audience.

Immersion to laboratory research and data analysis as well as assembling organized written reports to address progress, completion, and recommendations for improvement.

HONORS AND ACTIVITIES

<u>Dean's List</u> at the University of Michigan	2014
<u>Leadership Award</u> from Petoskey High School Marching Band	2013 – 2014
<u>Phi Theta Kappa</u> member	2013
<u>President's List</u> at North Central Michigan College for two terms	2012 – 2013