Veronika Bychkova bychkv@rpi.edu

Objective	To find further my understanding of the Aeronautical Engineering field.		
Education	Rensselaer Polytechnic Institute (RPI), Troy, NY Bachelor of Science in Aeronautical Engineering 2017 Current GPA-	3.37	
Related	Project Engineering Inter, Pratt & Whitney		June 2016-August 2016
Experience	 -Investigated and confirmed root cause of a failure in testing on the F-135 Nozzle. Managed and organized 4 different teams to test and establish modes of failure and stress concentrations. -Created MATLAB code to simplify the analysis of turbine blade frequency data for future use. - Received Appreciation Award for going above and beyond to make an important deadline. Undergraduate Research with Professor Michael Amitay 		June 2015- Present
	-Preformed ground breaking experimental research. Designed two with different airfoil shapes for various flow control testing using NX -Worked in field conditions on the RPI Wind Turbine in assembling		February 2014
	 Redesigning Old Patent -Computerized a letter holder patent by John Mersellis of Knocksville, NY designed in 1878. -The object was 3D printed and is now displayed in the Altamont Historical Museum. Engineering Graphics and CAD Teacher Assistant 		August 2014-May 2015
	-Aided and taught engineering students in understand NX. Graded and made decisions on students' performance in up to 4 classes a semester. CAD Commission Work		
	-Tom Bombard- Drafted and documented a walking wheel design -Aloha Energy- Drafted a new model for a foam insulation gun in then mass produce. Altered the original design in order to optimize for	order to create a mold and	
	output products. -Dave DiGuilio- Redesigned and Drafted a new concept for a towe be plastic molded for testing.	el heating system which will	
Work Experience	Teaching Resident Assistant – Troy, NY -Supervised and taught Camps such as Harlem Academy, Bernard Harris and Preface where middle and high school students explored topics in the STEM fields.		May 2015-August 2015
	Quality Control Team Leader – BR Incorporated – Princeton, NJ -Was in charge of all interviewers' conduct and technique on the t -Preformed managerial tasks; terminating workers and reporting st		June 2012-January2015
Leadership and Activities	Design/Build/Fly -Structures Lead - Drafted 6 prototypes for the year's competition. In charge of fine element analysis in order to design the strongest and lightest aircraft to optimize in the missions.		August 2015-May 2016
	-Treasurer - Monitored 3 financial accounts, amounting to over \$15,000 and in charge of purchasing important materials for the building of RC planesDrafted sections of the 2014 and 2015 plane for the report and constructed parts, such as flight		August 2014-August 2015
	control surfaces. Coordinator of LEAP- Leadership Educators Advising Peers -Held workshops for fellow students and organizations on team building, communication, public speaking and goal setting (approximately 4/semester).		April 2015-Present
	 -In charge of the whole LEAP organization and 18 members. Outreach Officer for Exploring Engineering Day -Created an activity for children ages 6-13 in order to inspire STEM interest. Was in charge of 		February 2015
	18 volunteers during the event. Mentor of the Women's Engineering Society of RPI -Established, developed and maintained an open relationship envir	ronment for two mentees.	March 2014-Present
Skills	Software: Microsoft Office (Word, Excel, PowerPoint, Project), CAD (NX, AutoCAD, SolidWorks, SketchUp), Photoshop, MATLAB, ANSYS Language: English, Russian, Ukrainian		
Honors		adership Award Foundation Award	Patroon Scholarship