Brandon Gares

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113 Circle Drive South, Lambertville, NJ 08530

EDUCATION	Rensselaer Polytechnic Institute (RPI), Troy, New York			
LDOCATION	M.E. Aeronautical Engineering		(May 2022)	
	B.S. Aeronautical Engineering/Economics Dual Major 0	GPA 3.98/4.0	(May 2022) (May 2021)	
SKILLS	•			
	Siemens NX; MATLAB; Microsoft Word; Microsoft Office (Including Excel); CORENA Studio		0	
	Practical Machining using lathes, mills, and drill process. Public Spa	aking Tachnical Writing Wind	Water Tunnel Experience	
	Machining using lathes, mills, and drill presses; Public Spe			
RELEVANT WORK		Base Support Engineering Co-o		
EXPERIENCE				
	aircraft comprised of 5 hangars with 15 docks.			
	 Designed various repairs for damage to aircraft s 	tructure, including doublers, sp	lices, straps, angles, and	
	freeze plugs.			
	American Airlines		January 2020 – August 2020)	
	Maintained largest global fleet of A320 Family air			
	 Authored technical documentation such as Engineering Orders and Engineering Authorizations detailing maintenance procedures for aforementioned aircraft. 			
	 Primary contributor to \$1.1 million project to inspect and modify critical aircraft structure. Revised technical documents including IPC, SRM, and AMM to ensure cross-fleet consistency. 			
STUDIES	 Air Vehicle Design Course Performed the system level design of a passenger-cargo commercial hybrid aircraft. Personal contributions included concept generation and design of aerodynamic surfaces including the wing, horizontal tail, vertical tail, and control surfaces. 			
	Inventor's Studio Course			
 Performed the structural analysis as part of a team designing a vertical modular greenhouse 			greenhouse capable of	
	 reducing CO2 emissions as well as growing food and filtering water. Laboratory Experience Center for Flow Physics and Control (CeFPaC) Conduct experiments utilizing a water tunnel to analyze flow separation over swept and tapered wings at low Reynolds Numbers (Re<1000) and high angles of attack. Aerospace Structures and Controls Laboratory 			
	 Analyzed various aspects of structures in aircraft and spacecraft, including vibrations, gyrodynamics, elastic 		tions, gyrodynamics, elastic	
	instability, and composites.			
LEADERSHIP	Rugby Team Captain		(November 2018 – Present)	
	 Elected captain of the RPI Men's Rugby Club. Res 	ponsible for leading the team c	luring practices and games,	
	representing the team both on and off the field,			
	 VP of RPI Rugby Club (November 2019 – November 2029 Run the everyday operations of the rugby club, including managing several minor positions, organizing 		ber 2019 – November 2020)	
			or positions, organizing	
	practice times, and de-escalating conflict within t	he club.		
	VP of Communications for NY Kappa Tau Chapter of Pi La	ambda Phi (Noverr	nber 2018 – November 2019)	
	 Organized two formal events for approximately 7 	'5 people while staying under a	\$2,500 budget. Responsible	
	for booking a venue, organizing transportation, a	zing transportation, and planning a menu for food and beverages.		
	 Collaborated with President to implement an alumni newsletter outlining current events within the chap 		-	
	Rugby Treasurer	Created and implemented a \$30,000 annual budget for the RPI Men's and Women's Rugby Clubs.		
	 Cooperated with team leaders and coaches to prioritize both short and long term financial needs including 		_	
paying league dues and purchasing new equipment to replace the outdate		ent to replace the outdated equ	-	
ACTIVITIES	Member of Pi Lambda Phi Fraternity		(April 2018 – Present)	
	RPI Men's Rugby		(August 2017 – Present)	
HONORS	Dean's List		(Fall 2017 -Present)	
	Sigma Gamma Tau Aeronautical Engineering Honor Socie	ety	(April 2018 – Present)	