



Thomas Collins

111 Willard Ave, Portsmouth NH 03801 • (603) 828 - 9643 • twc1001@wildcats.unh.edu

Objective:	Find a full-time aerospace engineering position. Emphasis on Propulsion and Spacecraft Mechanical Engineering.			
Education:	University of New Hampshire – College of Engineering and Physical Sciences	Jan. 2017 – May 2020, anticipated		
	GPA: 3.24/4.0 B.S, Engineering Physics Minor in Mechanical Engineering			
	University of Maine, Orono – College of Engineering	August 2015 – December 2016		
	B.S, Engineering Physics			
Tech Skills:	Solidworks MATLAB Visual Basics for Applications Mastercam LabView 5 Axis Machining GitHub			
Experience:	TURBOCAM, International		May 2019 – present	
	Engineering Intern			
	<ul style="list-style-type: none">Operated electrochemical machines and 5-axis mills.5 Axis Mill toolpath programing using MastercamRoot cause analysis leading to implementation of corrective measures.Strict attention to detail throughout the engineering process.Developed data analysis software for data management and control. Data considerations consisted of material analysis, characterization, and testing.			
	Nuclear and Particle Physics Group – University of New Hampshire		August 2018 – August 2019	
	Undergraduate Research Assistant			
	<ul style="list-style-type: none">Maintained hardware standards, testing standards, and designed safe processes for radioactive material.Assigned projects to work on independently and with senior lab personnel.Assisted professors in development and implementation of experiments.			
	UNH Engineering Physics and Mechanical Engineering		January 2018 – present	
	Undergraduate Researcher			
	<ul style="list-style-type: none">Study of Engineering Physics Major curriculum, including Classical mechanics, quantum physics, and optics.Study of Mechanical Engineering Minor curriculum, including thermal systems, control systems, and fluid dynamics.			
	Relevant Orgs:	UNH Students for the Exploration and Development of Space		August 2017 – present
Vice President, Frame Lead				
<ul style="list-style-type: none">Board member, in charge of the Member Body and leading Frame Team.Led mechanical fabrication of a rocket frame through design engineering and drafting with successful integration of each program’s components. Critical to our Hybrid Rocket with a propulsion unit capable of 300lbs of thrust.Architectural design of the rocket frame generated through computer aided engineering solutions and analysis of mechanical design through finite element analysis.In charge of general member involvement and assisting the president with club organization and structure.Placed 2nd in the 2018 Undergraduate Research Conference in Mechanical Competition Teams.				
Society of Physics Students Member		January 2017 – present		
<ul style="list-style-type: none">Academic Society devoted to creating a community for the Physics and Engineering Physics students on campus.Assist undergraduates in General Physics 1-2 and Calculus 1-2				
Extracurricular Activities:		Brother of Alpha Kappa Psi		January 2017 – January 2019
		<ul style="list-style-type: none">Business Professional Fraternity. Devoted to shaping people in professional ways to enhance modern business.Judiciary Board Member.		
		UNH Archery Member		Fall 2017 – present
		<ul style="list-style-type: none">Athletic club including weekly practice and yearly competitions.		