



Thomas Collins

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Objective: Find an internship or full-time aerospace engineering position starting the summer of 2020

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

- Operated electrochemical machines and 5-axis mills.
- Develop software for data analysis in Visual Basic for Applications
- 5 Axis Mill toolpath programming using Mastercam
- Root cause analysis leading to implementation of corrective measures.
- Strict attention to detail throughout the engineering process.

Nuclear and Particle Physics Group – University of New Hampshire August 2018 – August 2019
Undergraduate Research Assistant

- Tested and prepared radioactive target 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

- 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.
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Relevant Orgs:

UNH Students for the Exploration and Development of Space August 2017 – present
Vice President, Frame Lead

- Board member, in charge of the Member Body and leading Frame Team.
- Managing the Frame program to manufacture and build a beautifully designed frame with successful integration of each program's components. Critical to the success of our Hybrid Rocket capable of 300lbs of thrust.
- In charge of general member involvement and assisting the president with club organization and structure.
- Attended SpaceVision 2018 with 16 team members in San Diego, California to network with other SEDS members
- Placed 2nd in the 2018 Undergraduate Research Conference in Mechanical Competition Teams.

Society of Physics Students Member January 2017 – present

- 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

- Business Professional Fraternity. Devoted to shaping people in professional ways to enhance modern business.
- Judiciary Board Member.

UNH Archery Member Fall 2017 – present

- Athletic club including weekly practice and yearly competitions.