**Thomas Collins**

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**Education**

**University of New Hampshire, Durham** Expected Graduation May 2020

College of Engineering and Physical Sciences Cumulative GPA: 3.24

Candidate for Bachelor of Science in Engineering Physics

Concentration in Aerospace

Minor in Mechanical Engineering

**University of Maine, Orono** Fall 2015 – Fall 2016

College of Engineering

Candidate for Bachelor of Science in Engineering Physics

Concentration in Mechanical Engineering

**Experience**

**TURBOCAM, INC** May 2019 – Current

*Engineering Intern*

* Operation of electrochemical machines and 5-axis mills.
* Develop software for data analysis.
* Root cause analysis leading to implementation of corrective measures.
* Strict attention to detail throughout the engineering process.

**UNH Students for the Exploration and Development of Space** Fall 2017 – Current

*Vice President*

* Board member, in charge of the Member Body and leading Frame Team.
* Design and Analysis of a Hybrid Rocket capable of 450 lbs. of thrust.
* Placed 2nd in the 2018 Undergraduate Research Conference in Mechanical Competition Teams.
* SEDS is a nationwide organization that encourages students in the fields of Engineering and Service.
* Nationwide competition includes building and designing a variety of Hybrid, Solid, and Liquid Rockets.

**Nuclear and Particle Physics Group – University of New Hampshire** Aug 2018 – May 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.

**Skills**

* Proficient in Visual Basic for Applications
* Proficient in MATLAB
* Proficient in SOLIDWORKS
* Proficient in GitHub
* Experience with C++ / LabVIEW

**Relevant Course Work**

* Quantum and E&M Physics
* Controls and Fluid Dynamics
* Thermodynamics
* Calculus 1-3
* Electronic Design
* Statistical Mechanic

**Extracurricular Activities**

**Society of Physics Students Member** Fall 2015 – Current

* Academic Society devoted to creating a community for the Physics and Engineering Physics students on campus.
* Tutor General Physics 1-2 and Calculus 1-2

**Brother of Alpha Kappa Psi** Spring 2017 – Spring 2019

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

**UNH Archery member** Fall 2017 – Current

* Athletic club including weekly practice and yearly competitions.