



Thomas Collins

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

Education

University of New Hampshire, Durham

Expected Graduation May 2020

College of Engineering and Physical Sciences

Cumulative GPA: 3.25

Candidate for a 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's of Science in Engineering Physics

Concentration in Mechanical Engineering

Experience

Nuclear and Particle Physics Group – University of New Hampshire

Aug 2018 – Current

Undergraduate Lab Assistant

- Test and prepare radioactive target material.
- Assigned projects to work on independently and with senior lab personnel.
- Assist professors in development and implementation of experiments.

UNH Students for the Exploration and Development of Space Vice President

Fall 2017 – Current

- SEDS is a nationwide organization that encourages students in the fields of Engineering and Service. Competition includes building and designing a variety of rockets.
- Board member, in charge of the Member Body and assisting the President.
- Placed 2nd in the 2018 Undergraduate Research Conference in Mechanical Competition Teams.
- Design and Analysis of a Hybrid Engine capable of 450lbs of thrust.

Lang's Landscaping Service – Greenland, NH

May 2017 – Aug 2018

General Laborer

- Mentored new employees and instructed crews on job sites
- Team oriented environment centered around hard work and dedication.
- Services include: general electrical work, masonry, landscaping, and hardscaping.

Skills

- | | | |
|----------------------------|----------------------------|---------------------------|
| • Proficient in MATLAB | • Proficient in GitHub | • Experience with C++ |
| • Proficient in SOLIDWORKS | • Proficient in OpenRocket | • Experience with LabView |

Relevant Course Work

- | | | |
|----------------------------|------------------|-------------------------------|
| • Modern, Quantum, and E&M | • Thermodynamics | • Fluid Dynamics and Dynamics |
| | • Calculus 1-3 | • 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
- Advisor for freshman and undergraduate physics students.

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.