



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 GitHub
- Proficient in SOLIDWORKS
- Experience with C++ / LabVIEW

Relevant Course Work

- Quantum and E&M Physics
- Thermodynamics
- Electronic Design
- Controls and Fluid 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

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.