

A. Physics Student

Phone: XXX-XXX-XXXX

[Your Email](#) · [Your LinkedIn Account Link](#)

EDUCATION

Bachelor of Arts in Physics – St. Olaf College, Northfield, MN, expected May 2022

- GPA: X.XX
- Concentration in Engineering Studies
- Relevant scientific coursework: Computer-Aided Engineering, Engineering Thermodynamics, Classical Mechanics, Maxwell's Equations, Quantum Mechanics
- Mathematics courses: Multivariable Calculus, Linear Algebra, Differential Equations

SCIENTIFIC SKILLS

- Software expertise: Intermediate proficiency for Autodesk Fusion 360, SolidWorks, Python, and Microsoft Excel
- Laboratory experiences include successful demonstrations of the physics of rotation (including Faraday Rotation), the creation and proof of antimatter, and precise measurements of the speed of light

PHYSICS-RELATED PROJECT EXPERIENCE

“Computer-Aided Design of a Catapult”, St. Olaf College, Northfield, MN, Spring 2021

- Virtual project with Dr. Gustavo Example in the St. Olaf Department of Physics to create a model using the basic catapult concept to maximize the energy of a small projectile
- Iterated model several times using SolidWorks and Python to optimize the design, energy consumption, and heat dispersion
- Presented results and possibilities for the project's continuance in an in-class lecture and Q&A session

“The Propagation of Turbulence into Laminar Boundary Layers”, St. Olaf College, Northfield, MN, Fall 2019

- Project with Dr. Khadija Example of the St. Olaf Department of Physics to investigate the presence of wind turbulence and its propagation in a controlled laboratory environment (with analysis of the corresponding subcharacteristics)
- Project completion included a written report detailing the mathematical proof of the phenomenon and the filming and editing a video explaining the phenomenon (available at this [link](#))

WORK EXPERIENCE

Engineering Intern, Inner Space Physics and Design, St. Paul, MN, Summer 2021-Present

- Successfully revised and collaboratively created several aerospace and flight device component designs
- Worked with partner to realize designs (SolidWorks models/real-world prototypes) for client presentations
- Performed inspections on device components according to company and legal protocols

Classroom Teaching Assistant, Quantum Mechanics (PHYS 376)– St. Olaf College, Northfield, MN, Fall 2020

- Hosted weekly office hours to answer questions regarding students' coursework and further explain concepts in
- Ensured that students had clear expectations and deadlines; provided high-quality feedback

Laboratory Teaching Assistant, Basic Physics (PHYS 101) – St. Olaf College, Northfield, MN, Fall 2018

- Supported a large, diverse class of first-year Physics students to ensure that they understood various physical phenomena and were able to simulate these using Python
- Facilitated long-term student development of final projects modeling complex physical and mathematical scenarios
- Solidified scientific communication and explanation skills