

# Nolan B. Sankey

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## Education

**Dartmouth College** - Sept 2017—March 2022 (expected)

Hanover, NH

- Bachelor of Engineering in Mechanical Engineering; Physics, Math Minors; GPA: 3.97/4.00, Major GPA: 4.00/4.00
- *Relevant Coursework:* Machine Engineering, Mechatronics, Systems Engineering, Control Engineering, Digital Electronics, Structural Analysis, Solid Mechanics, Object-Oriented Programming, Operations Research

**Steamboat Springs High School** - Class of 2017

Steamboat Springs, CO

- Class Valedictorian

## Relevant Experience

**Startup in Stealth Mode**

Bay Area, CA

*Mechanical Engineering Intern* - December 2020—March 2021, June 2021—September 2021

- Designing, analyzing, and constructing mechanical, electrical, fluidic, and thermal systems for an innovative biotechnology instrument and performance validating testbenches.
- Hands-on experience with sensors/actuators (motors, valves, gauges, heaters, TECs, heat sinks, thermocouples, RTDs, fluidic sensors) and manufacturing equipment (hand tools, band/miter saws, mill, wire harnesses).
- 3D modeling using Solidworks software and collaboration with vendors for component manufacturing.
- Troubleshooting work on mechanical/electrical failures, control system performance, and vibrational isolation.
- Developing thoroughly written manufacturing instructions, acceptance testing plans, and device history records.

**Dartmouth College**

Hanover, NH

*Machine Learning Aircraft Recovery* - December 2019—Present

- Optimized airline schedules to create more efficient disruption responses using machine learning.
- Only undergraduate working on the project; independently learned and immediately utilized Python.
- Constructed a model using past flight schedules and cost data, wrote a unique recovery algorithm, programmed a solver to optimize the assignment of aircraft, and trained ML classifiers to recognize effective solutions.

**Thayer School of Engineering**

Hanover, NH

*Pings for Positive Change* - March—June 2019

- Collaborated with 4 team members to invent and build a wearable notification device that utilizes information gathering technology to help eliminate sexual violence and harassment on college campuses.
- Awarded the *Phillip R. Jackson Award* in recognition of the most outstanding project of the term.
- Lead development of all hardware and software components of the project; responsible for timely ideation, design, and creation; incorporated client feedback throughout development.

## Leadership Experience

**Dartmouth Outing Club Biathlon, President/Founder** - May 2018—Present

Hanover, NH

- Founder of club and coordinator of all operations, activities, and finances.
- Representative to Outing Club Directorate: planning and executing campus-wide events.

**Dartmouth Skiway, Dartmouth Ski Patrol: Shift Supervisor** - Sept 2017—Present

Lyme, NH

- Leading and working with a team to respond to difficult, stressful situations and make quick, informed decisions.
- Managing day-to-day operations in addition to consistent training and incident response.

## Skills

**Engineering Skills:** Solidworks, MATLAB, Excel, Shop Tools, Electrical Wiring/Crimping, Soldering, Process Documentation

**Programming Skills:** Java, Python, HTML, CSS, Arduino, VHDL, ACS Motion Control

**Soft Skills:** Leadership, Problem Solving, Teamwork, Grit, Independent Thinking, Creativity, Strategic Insight