

TYLER WEMPE

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EDUCATION

Iowa State University

- Honors Student
- Aerospace Engineering Major
- Cyber-Physical Systems Minor
- Non-Destructive Evaluation Minor

August 2026 - Present

X High School

- Class Rank: 67/474
- GPA: 4.020

Sep 2022 - June 2026

WORK EXPERIENCE

Engineering Intern, AriensCo

June 2026 - August 2026

- Designed a Raspberry Pi 5 + Python data collection system integrating accelerometer, temperature, GPS, and camera inputs to log real-world product usage across two field sites.
- Replaced fragmented manual tracking with a centralized database and dashboard accessible to engineers and field teams across three sites.

PERSONAL PROJECTS

Subsonic Wind Tunnel

May 2025 - March 2026

- Designed and 3D-printed a modular subsonic wind tunnel to collect real data on models and propellers.
- Integrated electronics and C++ data acquisition so those tests produced usable measurements, not just visual airflow.

Random Sound Player

February 2026 - June 2026

- Designed a battery-powered PCB in EasyEDA and had it made through PCBWay, then 3D-printed an enclosure for a small standalone electronics device.

LEADERSHIP & ACTIVITIES

Varsity Hockey Captain, X High School

June 2024 - March 2026

- Led the transition to a 5-school co-op, getting players from four other schools to bond and form a shared culture after a year of maintaining team traditions.

Activities

- *National Honor Society*, X High School
- *Junior Varsity Golf*, X High School
- *Chemical Engineering Camp*, Michigan Technological University

HONORS & AWARDS

- AP Scholar with Distinction - College Board
- Varsity Hockey MVP - X High School
- Hobey Baker Character Award - WIAA

SKILLS

CAD & Design: Solidworks (*CSWA & CSWP Certifications*), OnShape, 3D Printing

Programming: C++, Python, HTML, CSS, Javascript

Other: PCB Design (*EasyEDA*), Data Acquisition, Web Development