

Peter Bossev

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EDUCATION

Bloomington High School North (BHSN)

GPA: 3.99/4.00, Weighted: 4.38/5.00, Ranking: 3/405

Bloomington, IN

Aug 2022 – Present

- Current **Sophomore**, skipped 8th grade
- **Relevant Completed Coursework:** Physics Honors (introductory algebra-based physics), Introduction to Informatics Honors (4 credit hours for **INFO-I 101** at IU), Computer Repair and Maintenance
- **Current Coursework:** **AP** Calculus BC (equivalent to **Calculus II**), **AP** Physics C: Mechanics & Electricity and Magnetism (equivalent to introductory **calculus-based physics**), **AP** Biology, **AP** World History: Modern, Chemistry Honors
- **Test scores:** **1450/1520** on the **PSAT 10**, **1410/1440** on the **PSAT 8/9**

EXTRACURRICULARS

BHSN Science Olympiad

Sep 2022 – Present

- Competed at the **state** level for the **'23** and **'24** seasons
- Notable placements: **1st** (at **Cybersecurity**) & **2nd** (at **WIDI**, a communication-based event) at state, **2nd** (at **Astronomy**) & **3rd** (at **WIDI**) at regionals, **12/151** at a national online invitational

Monroe County High Ability Committee

Nov 2022 – Present

Monroe County Community School Corporation (MCCSC)

- The steering committee of MCCSC's **High Ability** Identification, Services, and Curriculum
- **First student** to **ever** be invited to the committee (~ **25** members)

BHSN Track and Field

Feb 2024 – Present

BHSN Math Club

Aug 2022 – Present

BHSN Math Team

Mar 2024 – Present

AWARDS & ACHIEVEMENTS

United States Physics Olympiad (USAPhO) Qualifier, 2024: Qualified through scoring in the top **500** nationally out of ~ **6000** participants

National Honors Society (NHS) member: Inducted for demonstrating scholarship, service, leadership, and character

PROJECTS

Homemade Dry Ager

Sep 2022 – Present

- Repurposed wine cooler to maintain ideal conditions (temperature and humidity) for meat drying
- Used off-the-shelf **DC-DC Buck converters** for powering **Peltier** coolers, microcontroller logic, and fan power.
- Used off-the-shelf microcontrollers (**Arduino** and **NodeMCU ESP8266**) for fully automated control logic and data transfer, with the **DHT22**, a Temperature/Humidity sensor
- Created a web interface to graph and monitor Temperature/Humidity conditions remotely (smartphone, PC, tablet)

Warframe Discord Bot

Jan 2022 – Feb 2024

- A Discord bot made with **Discord.js**, written in **Typescript**
- Allowed users to easily use bot commands to query Warframe data using the **Google Sheets API**
- Used by ~ **70** people over its lifetime, with ~ **90000** queries executed

zWeather

Dec 2022

- A mobile, utilitarian weather app utilizing **Flutter**
- Featured an hourly, daily, and weekly forecast with toggle-able graphs, current weather metrics, such as temperature, dew point, snow/rainfall, wind metrics, etc
- Utilized **Open-Meteo's** weather **APIs** for getting weather info, and geocoding

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Dec 2023 – Present

- A portfolio website made with **11ty** and **TailwindCSS**

SKILLS

Programming: Linux, Git, Arduino, Typescript (NodeJS), Flutter/Dart, LaTeX, Python, HTML/CSS.

Languages: English (native), Japanese (Elementary), Chinese (Elementary)

Typing speed: 110 WPM

Familiar with electronic testing equipment (oscilloscopes, multi-meters, function generators, etc.)