

# Evan Payne

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(724) 205-2160

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## Education

**The Pennsylvania State University – Erie Campus**

**Aug. 2022 - May 2025**

Bachelor of Science in Computational Physics

Overall GPA 3.780

Dean's List

Fall 2022 – Fall 2024

## Work Experience

**Penn State Behrend**

**Erie, PA**

**Undergraduate Research**

**May 2023 – Apr. 2024**

- Learned VASP for bulk and defect calculations on Linux.
- Wrote Python code to calculate phase stability diagrams and corrections for defect calculations.
- Wrote Bash scripts to submit and analyze defect calculations.
- Applied above methods to the case of point defects in  $Rb_3Sb_2I_9$ .

**Physics Teaching Assistant**

**Jan. 2024 – Dec. 2024**

- Taught students individually and in small groups on various topics.
- Worked with faculty to ensure the current material was fair and informative.

**University of Toledo**

**Toledo, OH**

**Undergraduate Research**

**May 2024 – Aug. 2024**

- Applied SQS to generate VASP supercells.
- Characterized physical and optical properties of  $CdTe$  and  $CdSe_{0.3}Te_{0.7}$ .
- Calculated defect transition levels in  $CdTe$  and  $CdSe_{0.3}Te_{0.7}$ .

## Leadership Experience

**Physics Club, President**

**Aug. 2023 - Current**

- Worked with students on activities for fairs and major events.
- Held study sessions for multiple physics classes.
- Managed club members to setup for various events at the Total Solar Eclipse in 2024.

## Technical Skills

- Proficient with C++, Python, SQL, HTML, CSS, and Bash
- Certified in Excel, Word, Outlook, Access, and PowerPoint