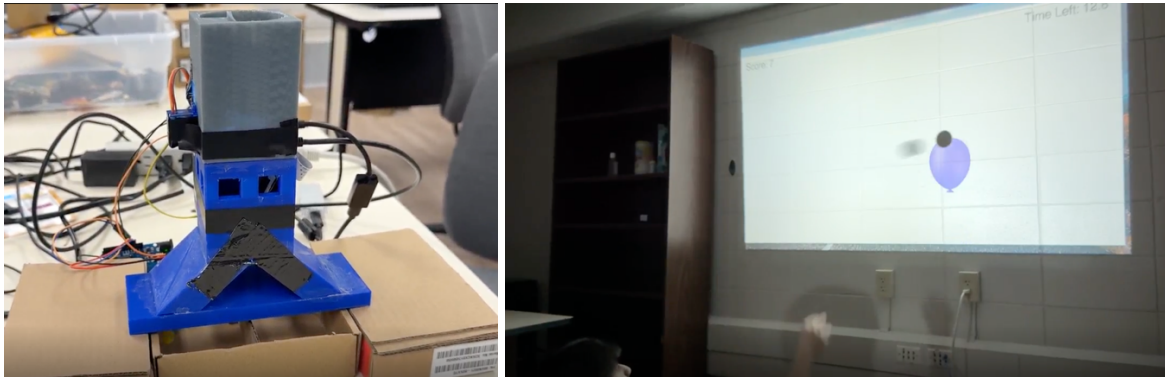


## Undergraduate Mentor Position: Responsibilities and Compensation



We are hiring for multiple Undergraduate Mentor positions for our SmartCT project. The project is funded by the National Science Foundation and focuses on learning to create intelligent solutions with Machine Learning and Computer Vision and develop a pathway to AI careers for high school students.

The mentorship program aims to teach fundamental AI and Machine Learning concepts to high school students through the combination of a summer camp and a series of after-school training throughout the academic year. The program will make use interactive hands-on activities such as Google Quick Draw, RAISE Playground, Lego robots, Turtlebot autonomous driving, balloon game, sorting machine, and smart door systems. This year, the mentorship program begins with a summer camp on June 1 – June 5, 2026, with the option of continuing throughout the academic year.

The AI/ML activities involve building intelligent apps that uses computer vision and machine learning classification models to perform automated tasks. Coding will be done in Python, Tensorflow Lite, ROS, and OpenCV. There will also be a training workshop beforehand to prepare undergraduate mentors to use the various libraries and tools.

As part of the academic year after-school program (Fall 2026 and Spring 2027), undergraduate mentors will be paired with a group of 3 high school students and guide them to design and build their own sorting machine and smart door system. Undergraduate mentors are expected to travel to surrounding high school districts (e.g. Columbus and West Point, within 50-60 miles), meet weekly with high school students, and mentor them to build AI/ML projects.

Example of sorting machine project: <https://experiments.withgoogle.com/tiny-sorter/view/>

Example of smart door project: <https://medium.com/@ageitgey/build-a-face-recognition-system-for-60-with-the-new-nvidia-jetson-nano-2gb-and-python-46edbddd7264>

Detailed information about the Undergraduate Mentor Responsibilities and Compensation is given below:

### **1. Summer 2026 (Summer Camp)**

- Work with high school teachers and students in groups and support group activities
- Time commitment: June 1 – June 5, 2026 (Monday-Friday)
- Compensation: 5 days x 8 hours x \$20/hour (breakfast and lunch provided)

### **2. Fall 2026 (After School Program)**

- Travel to local schools weekly to work with a group of three students
- Support the students' design and development of a smart door system
- Time commitment: meeting time of 2-3 hours, traveling time of 1-2 hours
- Compensation: (meeting time + traveling time) x \$20/hour + mileage reimbursement (at \$0.67/mile)

### **3. Spring 2027 (After School Program)**

- Travel to local schools weekly to work with a group of three students
- Support the students' design and development of a sorting machine
- Time commitment: meeting time of 2-3 hours, traveling time of 1-2 hours
- Compensation: (meeting time + traveling time) x \$20/hour + mileage reimbursement (at \$0.67/mile)

### **4. Summer 2027 (Summer Spotlight Presentation)**

- Work with students to prepare demonstrations and presentations of their Smart Systems for their parents and guests.
- Time commitment: One day (Saturday)
- Compensation: \$20/hour (lunch provided)

If interested, please submit your application through this Google Form:

<https://forms.gle/SWi4cF8k1onUGN8X7>

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