

# Connor Kalvar

## Mechanical Engineering Student

MIT Class of 2027 | Portfolio at ConnorKalvar.com

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### Work, Volunteer & Leadership Experience

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#### UNDERGRADUATE RESEARCHER AT MIT | Cambridge, MA | Spring 2024

Worked under Principle Research Scientist Brian Anthony at MIT to develop a computer vision system for use in tracking people and objects. Collaborated with a multidisciplinary team to develop a wide range of biomechanical medical devices. Designed mechanical mounts for sensors and programmed the computer vision system for the camera. System intended to track a multitude of objects to gather data for a variety of uses including balance data and track and field implement speeds.

#### NEXT LEVEL CODING CLUB FOUNDER AND VOLUNTEER INSTRUCTOR | Summit Academy - Louisville, KY | Oct. 2021-May 2023

Used MIT's Scratch programming language to teach fifth to twelfth graders the basics of programming through guided project lessons and unguided creative creation.

#### ARCHITECTURE CONSTRUCTION ENGINEERING (ACE) MENTOR CLUB | Trinity High School - Louisville, KY | Sep. 2021 - May 2023

MEP team lead for two laboratory renovation projects. Effectively divided up work and provided clear direction for my team.

#### TEACHING ASSISTANT | Trinity High School - Louisville, KY | Jun. 2022

Trinity Summer STEM Camp - Prepared class materials for middle school students and assisted Mr. Hammer throughout the camp.

#### RESEARCH VOLUNTEER | Zooniverse - Remote | Dec. 2019 - May 2021

Digitized WWI burial cards located at the National Archives.

### Projects

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#### ACE MENTOR CLUB CHEMISTRY LAB RENOVATION | Trinity High School - Louisville, KY | SEP 2022 - MAY 2023

Updated a 1950's era chemistry lab and classroom to better meet modern needs. Worked with teachers and industry mentors to develop a construction plan that was cost effective while providing needed improvements.

#### ACE MENTOR CLUB PHYSICS LAB RENOVATION | Trinity High School - Louisville, KY | SEP 2021 - MAY 2022

Converted a chemistry lab into a better workspace for physics classes. Worked with teachers and industry mentors to develop an effective plan that was approved by the school president.

#### TREBUCHET DESIGN BUILD PROJECT | Rose-Hulman Institute of Technology - Terre Haute, IN | JUL 2021

Coordinated with two other team members and Rose-Hulman Mechanical Engineering professors to successfully design and build a large-scale floating arm trebuchet from scratch. Design threw tennis balls over 120ft repeatedly.

### Education

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2023-2027

**Massachusetts Institute of Technology (MIT) | Cambridge, MA**  
Mechanical Engineering Major

GPA 4.5/5.0

Member of Men's Varsity Track & Field Team

2019-2023

**Trinity High School | Louisville, KY**

GPA Core 4.0 | Weighted 5.45

### Skills

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- Excel Master Class for Engineers - Summer 2024 Certification
- Microsoft Office, PowerPoint, Word & Excel
- Autodesk Fusion 360 CAD
- MATLAB

### Contact

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