

# ETHAN LEITNER

<https://www.github.com/lited> — <https://www.gitlab.com/lited>  
lited.com — ethanTLeitner@gmail.com

## EDUCATION

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### **Kennesaw State University**

B.S. in Computer Science  
Member of Electric Vehicle Team

*June 2022 - Present*

### **Georgia Institute of Technology**

B.S. in Computer Science  
Assisted with HyTech Racing

*August 2023 - May 2024*

## EXPERIENCE

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### **KSU Electric Vehicle Team (EVT)**

*Member*

August 2022 - May 2023

- C++, Python, ROS 2, GitLab, Docker
- Led the switch to real-time object detection using Darknet YOLOv4 and depth estimation utilizing a binocular camera
- Trained a TensorFlow U-Net model to segment the track from the rest of the camera image
- Created ROS nodes relating to object detection utilizing our depth camera within other parts of our kart
- Created multiple guides to set up our simulator environment and depth camera with computer vision
- Worked on lidar z-crop to get borders of track

### **SkaiVision**

*AI Intern*

September 2023 - March 2024

- Python, Tensorflow, Pytorch, OpenCV Github, Jira
- Meticulously annotated videos of vehicles to train networks with
- Learned more about building basic neural networks deepening understanding of fundamentals
- Created on a opencv-based arm-sign detection algorithm
- Learned more about segmentation neural networks such as SAM

## PROJECTS

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### **Past Even**

*Co-Creator*

Current

- Python, Opencv, Pyside
- Working with a friend on a paint application aimed at improving Python skills and exploring creative ideas
- Implemented features like an OpenCV-based tool for drawing borders around illustrations and a history slider for easier undoing and redoing functionality
- Learned a lot about software UX design and making an application friendly to the user

## TECHNICAL STRENGTHS

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### **Computer Languages**

Java, Python, C/C++, Javascript, GoLang

### **Frameworks**

ROS2, .NET, Qt, JavaFX

### **Tools**

VSCode, IntelliJ, Git, Docker