

ETHAN LEITNER

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<https://www.github.com/litehed> — <https://www.gitlab.com/litehed>

litehed.com

EDUCATION

Kennesaw State University

June 2022 - Present

B.S. in Computer Science

Member of Electric Vehicle Team

Georgia Institute of Technology

August 2023 - May 2024

B.S. in Computer Science

Assisted with HyTech Racing

EXPERIENCE

KSU Electric Vehicle Team (EVT)

August 2022 - May 2023

Member

- 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

September 2023 - March 2024

AI Intern

- 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

Past Even

Current

Co-Creator

- 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

Computer Languages

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

Frameworks

ROS2, .NET, Qt

Tools

VSCode, IntelliJ, Git, Docker