

# Kien T. Le

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## Objective

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As a third year Electrical Engineering student at Georgia Tech with a minor in Computer Science: System Architectures, I have experience in designing schematics, analyzing, and producing circuits. Additionally, I am versed with compiling and implementing code for robotics and simulations. I am seeking an internship in Robotics and software development starting May 2026.

## Education

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### Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Electrical Engineering, GPA 3.5

August 2024– Present

Expected Graduation, May 2027

### Georgia State University | Atlanta, GA

Transfer with 91 Credit Hours, GPA 4.01

August 2023 – May 2024

## Skills

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**Programming:** Java, Python, C, C++, Swift (iOS), HTML/CSS, Javascript, PHP

**Platforms:** Linux (Ubuntu)

**Hardware:** Raspberry Pi, ARM mbed microcontroller, FPGAs

**Software:** Android Studio, Altera Quartus II, NI LabVIEW, SolidWorks, OpenCV, GitHub, ROS2, Digit Mujoco, KiCAD

**Communication:** Design documentation, technical reports, presentations (large and small audiences)

**Languages:** German (conversational), English (fluent), Vietnamese (native)

## Experience

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### Georgia Tech BME Makerspace | Atlanta, GA

May 2025– Present

#### Shopand – Student Assistant

Georgia Tech BME's Makerspace is opened for everyone but mainly catered towards the BME students working on their 2310 and Capstone Projects, where they can come by learn the process of how to prototype and design while focusing on their final projects

- Worked with BME Capstone groups to guide them through utilizing circuit design and diagramming, in addition to calculating electrical circuits to determine appropriate system requirements
- Assisted approximately 30% of students with their projects through 3D modeling, laser cutting, and general workshop tools usage

## Projects

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### Mechanical Arm | Personal

Spring 2024 - Current

#### Design and Prototype

The project aimed to create a personal assistant that incorporated AI and active awareness into a desk mounted arm where it could help with providing feedback and support with future projects as it could hold and grab components that would be needed

- Developed a 5-axis model for a mechanized arm intended for engineering assistance through active awareness and visual displays through sensors (touch, ultrasonic, & light)
- Implemented and utilized machine learning and natural language processing APIs to achieve a 30% increase in response accuracy using Tensorflow in C++ and CUDA container

### Hector Locomotion | GT VIP

Spring 2024

#### Simulation Engineer

The objective of my time was to implement and incorporate digit mujoco into the existing ROS2 repo that contained the model for the Hector robot as a physic simulator was required for developing the feet model for unstable terrain

- Robotics realistic terrain simulation through Digit Mujoco, Turtle, and ROS creating a visual model and accessing the points of contact of the model with the terrain to determine concentrations for designing and prototyping limbs
- Aid with debugging and optimizing lidar and light sensor code for a 10% increase in execution speed

## Relevant Coursework

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**Robotics Perception in Society:** Utilized Ladybug Robotics Simulation to visualize sensor and lidar interactions with the environment

**Circuit Analysis:** General electrical circuits knowledge for designing realistic schematics

**Linear Algebra:** Important mathematical concepts for sensor and lidar waves calculations