

JACKSON C. YANEK

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EDUCATION

University of Kansas

B.S. Computer Science — GPA: 3.39

Lawrence, KS

Fall 2022 – May 2026

SKILLS & CERTIFICATIONS

Languages: C, C++, Python, Rust, JavaScript, HTML + CSS

Embedded Platforms: ESP32, Raspberry Pi, Nvidia Jetson Orin Nano, Linux, Robot Operating System (ROS, ROS2), FreeRTOS

Tools: Git/GitHub, Docker, TensorFlow Lite, Yocto

Certifications: Ultimate Rust Crash Course (Udemy)

EXPERIENCE

Undergraduate Research Assistant

University of Kansas

May 2024 – May 2026

Lawrence, KS

- Developed and deployed **C++ and Python ROS2 control algorithms** on a Linux-based Nvidia Jetson Orin Nano platform.
- **Optimized model for real-time performance**, seeing an average performance **gain of 23% with 0 extra latency**.
- Competed and **finished 3rd place internationally** in the first simulated race competition at Intelligent Robots & Systems (IROS) 2024 and 4th place internationally at the International Conference on Robotics and Automation (ICRA) 2026
- Worked with graduate students on cutting-edge research involving autonomous vehicles and machine learning.
- Hosted hands-on lectures covering **machine learning (ML), embedded Linux, and GitHub**, resulting in 70+ high school students deploying a self-driving ML model to a Raspberry Pi.

Computer Technician

City of Lawrence

May 2023 – Present

Lawrence, KS

- Provided technical support for software, operating systems, and hardware across municipal departments, closing 100+ help desk tickets.
- **Developed an internal Chrome extension using JavaScript** that allows for quickly searching asset tags from an IT ticket – **reducing search time by 54%**.
- Automated report generation on software licensing; **reduced manual processing time by 70%**.
- Installed 150+ technology upgrades for an 800+ employee base across all departments.

PROJECTS AND RELEVANT COURSEWORK

TinyLidarNet++ | ROS 2, Python, Docker | github.com/traxon99/tln_variants

- Implemented modified Convolutional Neural Networks (CNNs) for autonomous racecars, with deployment at physical and digital RoboRacer competitions.
- Created TLN Variants, a ROS2 package for autonomous racing model training, experimentation, analysis, and deployment.
- **Used to represent KU at the FITENTH Sim Racing League @ IROS 2024 (3rd Place) and ICRA 2026 (4th Place)**.

Voice Controlled Car | C++, TensorFlow Lite Micro, ESP32 | github.com/ColeStrickler/EmbeddedMLFinal

- Developed an embedded machine learning system for real-time voice control of an RC vehicle.
- Deployed and tested software on resource-constrained microcontrollers.
- **Achieved 95% accuracy within 50 KB of RAM.**

Relevant Coursework: Embedded Systems (EECS 388), Embedded Machine Learning (EECS 690), Intro to Cyberphysical Systems (EECS 700), Embedded and Real Time Computer Systems (EECS 753)

LEADERSHIP AND INVOLVEMENT

Vice President

KU F1Tenth Club — KU Engineering Club

August 2024 – May 2026

Lawrence, KS

- Revived and revamped the KU F1Tenth club, **growing membership to 10+ members by providing race opportunities and educational experiences.**

Active Member

Zeta Theta Tau — Professional Engineering Fraternity

January 2024 – May 2026

Lawrence, KS

AWARDS AND HONORS

- 4th Place, ICRA 2026 RoboRacer 5th International Simulated Autonomous Race
- 3rd Place, IROS 2024 RoboRacer 1st International Simulated Autonomous Race