

Jacob Kruse

546 N Peter St, Athens, GA 30601
(309)-798-3560
jacob-kruse@outlook.com
[LinkedIn](#) | [GitHub](#) | [Personal Website](#)

Employment

Graduate Research Assistant
University of Georgia/THINC Lab - Athens, GA
August 14, 2024 - Present
Worked on research involving robotic manipulators, camera-based classification, simulations, and ROS2

R&D Engineering Intern
IPG Photonics - Oxford, MA
May 19, 2025 - July 25, 2025
Developed automated R&D test stations, conducted tests, and analyzed data to optimize laser performance

Robotic Programming Intern
Lincoln Electric Automation - Bettendorf, IA
May 15, 2023 - August 4, 2023
Programmed FANUC robots for diverse applications including welding, material handling, and vision tasks

Gas Distribution Engineering Intern
MidAmerican Energy - Rock Island, IL
May 23, 2022 - August 18, 2022
Tested, troubleshooted, and fixed unprotected gas mains to uphold the standards for cathodic protection

Civil Engineering Intern
IMEG - Rock Island, IL
May 2021 - August 2021
Completed fieldwork on several Civil projects and tested concrete, asphalt, and soil in the lab

Other Positions
Learning Assistant
Western Illinois University, August 2021 - May 2023
Grounds/Maintenance
Boone's Lawn Care, August 2020 - November 2020
Grounds/Maintenance Crew
John Deere/Amentum, June 2020 - August 2020

Education

Master of Science in Computer Science
University of Georgia - Athens, GA
In progress with expected graduation in May 2026

Bachelor of Science in Electrical Engineering
Western Illinois University - Moline, IL
Graduated in May 2024 with a 3.91 GPA
Double Minor in Mathematics and Physics
Received Electrical Engineering Department Scholar and Summa Cum Laude Awards

High School Diploma
Orion High School - Orion, IL
Graduated in May 2020 with a 4.0 GPA
Received Illinois State Scholar Award

Additional Experience

Autonomous Vehicle Project
August 2023 - May 2024
Worked as the Leader of the Navigation Team for my Senior Engineering Design Project. Worked with ROS2, LiDAR, Camera, GPS, IMU, and other systems to make up the vehicle guidance system.

Volunteer Basketball Coach
October 2022 - February 2024 (2 seasons)
Acted as the Head Coach of the Orion High School Freshman Basketball Team. Attended games, helped at practices, and assisted with JV and Varsity

Skills

<u>Programming</u>	<u>Software</u>	<u>Hardware</u>	<u>Miscellaneous</u>
Python	KUKA OS	LiDAR	Wiring
C++	FANUC OS	RGBD Camera	Soldering
ROS2	SolidWorks	GPS/GNSS	Troubleshooting
Ubuntu/Linux	Fusion 360	IMU	Quick Learner
Nav2/MoveIt	NI Multisim	Arduino	Strong Leader
MySQL	Office 365	Raspberry Pi	