

Nicholas W. Sutton

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Experience

Robotics Undergraduate Researcher	May 2025 – Present
<i>Hybrid Intelligent Experimental Robotics (HIER) Lab - North Carolina State University</i>	Raleigh, NC
<ul style="list-style-type: none">Developed a Python teleoperation system for the Unitree Go2 quadrupedal robot, processing real-time motion capture data from a 6-camera OptiTrack system at 240HzDesigned a Temporal Convolutional Neural Network, achieving 95.46% accuracy in classifying 8 human gait modes from 34 biomechanical features derived from motion capture dataImplemented causal TCN architecture with dilated convolutions and attention mechanisms, outperforming baseline CNN models by 6% for real-time gait classification	

Projects

Fetch-MC Rust, Tokio, Clap
<ul style="list-style-type: none">Built a Rust CLI tool to automate Minecraft mod management by parsing TOML configs and fetching version-compatible add-ons via the Modrinth APIImplemented asynchronous API requests using Tokio to enable concurrent fetching of multiple mods, reducing download time for large modpacks

Munchie Bot Python3, PlayWright, Discord.py, Asyncio
<ul style="list-style-type: none">Engineered an automated Discord bot serving users with real-time Epic Games promotion alerts, reducing manual monitoring effort and ensuring zero missed opportunitiesImplemented asynchronous web scraping architecture to parse JSON and HTML data from Epic Games, achieving non-blocking data retrieval and consistent uptime

Technical Skills

- Languages:** C/C++, Rust, Python, Julia, Go, Java
- Technologies:** ROS2, PyTorch, OpenCV, Mujoco, Git, Linux, Docker

Education

North Carolina State University	Raleigh, NC
<i>Bachelor of Science in Computer Science (Honors), Minor in Mathematics</i>	GPA: 3.745 May 2027
Asheville-Buncombe Technical Community College	Asheville, NC
<i>Associate of Science in Computer Science</i>	GPA: 4.0 Aug. 2022 – Jun. 2024

Extracurricular Activities

Webmaster and Technical Committee Lead	Nov. 2025 – Present
<i>Association for Computing Machinery at North Carolina State University</i>	Raleigh, NC
<ul style="list-style-type: none">Designed and maintained the ACM chapter websiteLed the Technical Committee in organizing and executing collaborative coding projectsOrganized technical talks and hands-on coding workshops	
Peer Mentor and Computer Science Tutor	Aug. 2025 – Present
<i>Goodnight Scholars Program</i>	Raleigh, NC
<ul style="list-style-type: none">Mentored transfer students through academic transition via one-on-one meetings and resource guides covering course selection, campus navigation, and social integrationProvided peer tutoring in upper-level CS courses, including Software Development, Operating Systems, Algorithms, and Computational Theory	

Awards and Honors

Goodnight Scholars Program Transfer Scholar
A Full-Ride Scholarship program at North Carolina State University that provides opportunities for community service, professional development, and personal growth for low- and middle-income students majoring in STEM.