

Willem Nordhus

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Education

College

University of South Carolina (Columbia, SC) May 2029
Bachelor of Science in Computer Science

Experience

Internship at Michelin Tire Retreading Facility (Fountain Inn) June 2025 - August 2025
Learned about robotics in a factory setting, including

- FANUC 6-axis robot arms
- STM32 microcontrollers, I2C serial communication, and computer thermal vision
- Machine Learning in Computer Vision
- Computer Networking
- Passive RFID chips

Additionally, I learned what its like to work in Michelin, a large, multinational company with many branches and subsidiaries, a dynamic internal supply chain, and collaboration between the physical sites.

Extracurriculars

Student Development Lead (FRC Team 4451 Robotz Garage, Fountain Inn High School) Fall 2024 - Spring 2025

Taught incoming students the basics of robotics and programming, in addition to our team’s dynamics.

Programming Team Member (FRC Team 4451 Robotz Garage, Fountain Inn High School) Fall 2022 - Spring 2025

Learned about working with others who have a different skill set toward a common goal and working in a team hierarchy with project managers and sub-leads.

- Odometry using multiple sources, including Computer Vision and April Tags, IMUs, and Wheel Encoders
- Control loops, using PID and PIDF controllers
- Remote operated robot driving, including automation of driver tasks, in addition to a fully autonomous mode

Skills

Programming Languages

- C
- C++
- Java
- Lua
- POSIX Shell & Bash
- Python
- Rust

Tools

- Git
- Gradle
- Make
- CMake
- Nix & NixOS
- SSH