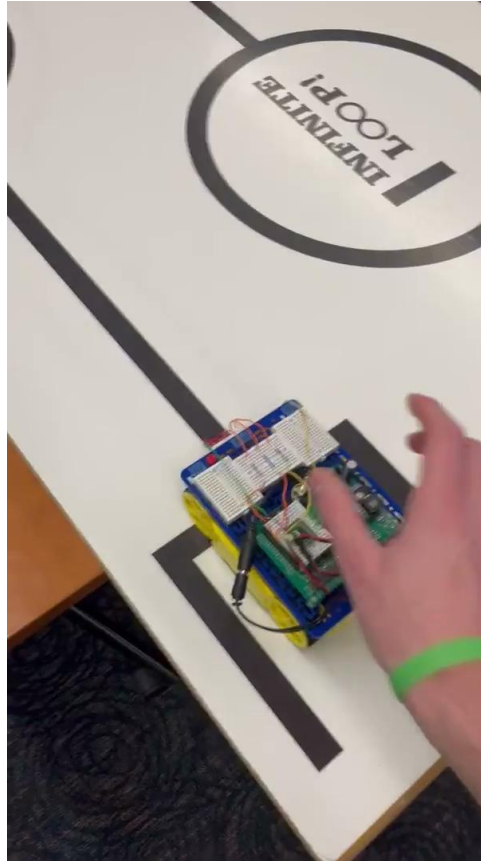
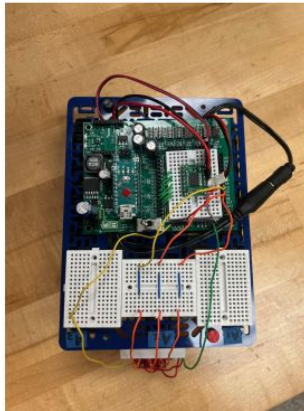
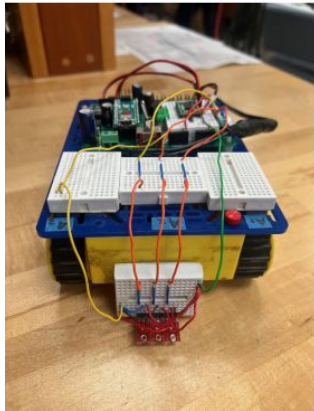
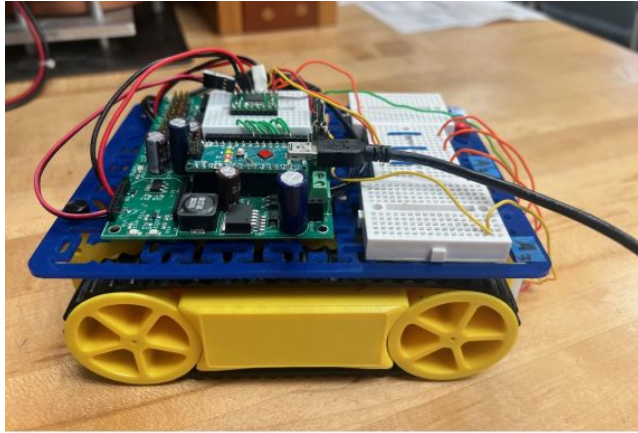


Autonomous Line Following Robot

Drake Elliott - Fall 2023



Objectives: Design the electronics and control algorithm for a robot so that it could navigate a predetermined course

Outcome: The robot successfully navigated the course in just over a minute without getting lost

Process: My partner and I leveraged an H-bridge motor driver and photoresistors to deliver power and guide the robot respectively. We also developed a C++ based algorithm for the robot to dynamically respond to the environment it is placed in. This algorithm includes a proportionally-driven line-following function as well as a searching method to relocate a path should the robot get lost.

(Click for video of competition run)