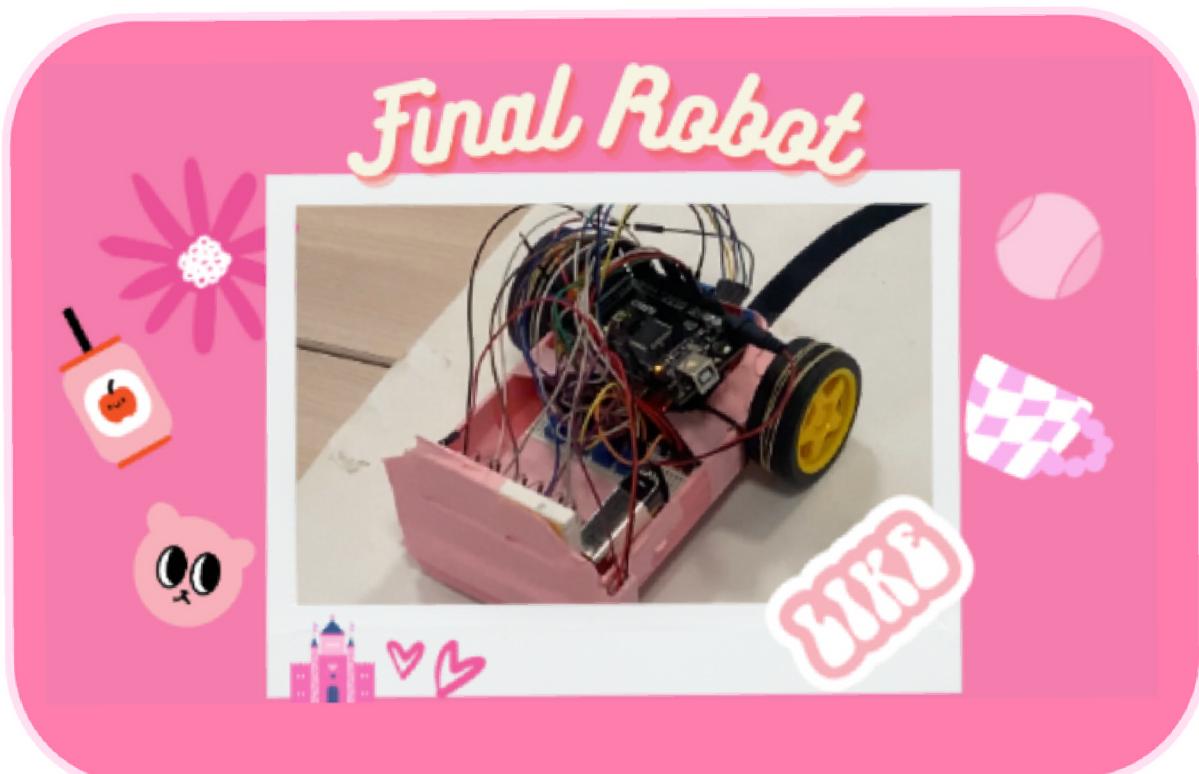




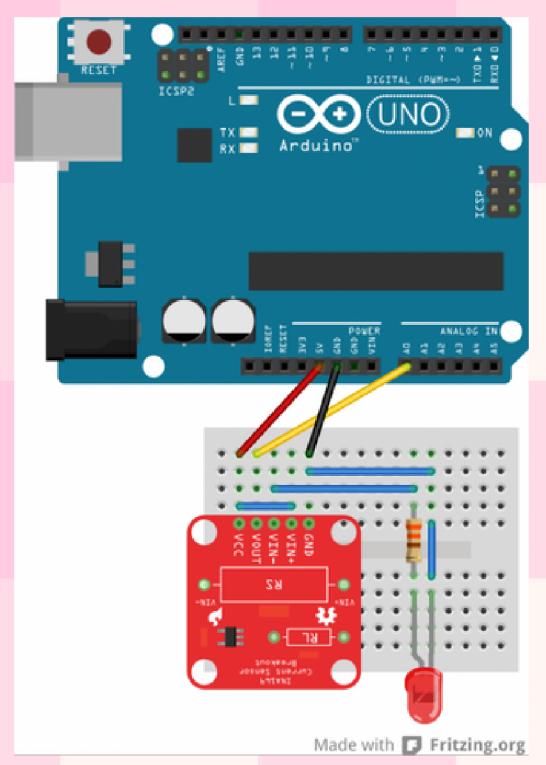
Lab 4 Robots and Control



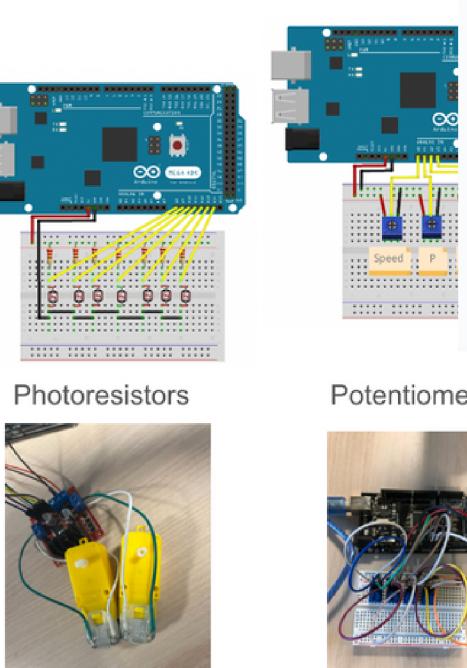
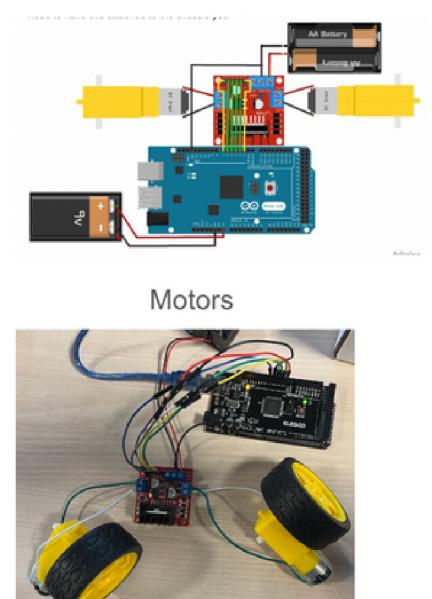
Our robot went through a ton of different changes in the past few weeks but the idea was clear, we wanted to make a cute robot from the get go! WE first tried out a cute cat shaped board, However after running into difficulties we decided to incorporate it somewhere else in the design, settling for a square shaped board to fit more parts in, Our second attempt let too much light in, SO we settled on the Cat eared design presented in gray, as it combines functionality with Aesthetics.



Through our creative and innovative ideas, our robot has achieved success in the task of following a line. This accomplishment is particularly significant for us, as it represents a triumphant moment in our project. The ability of our robot to effectively follow a line is a testament to the ingenuity and hard work invested in its development. In the pursuit of our goals, we faced challenges and uncertainties, but our team's commitment to pushing the boundaries of what is possible led us to this moment. The successful completion of the line-following task is not just a technical achievement; it is a tangible manifestation of our dedication and passion.

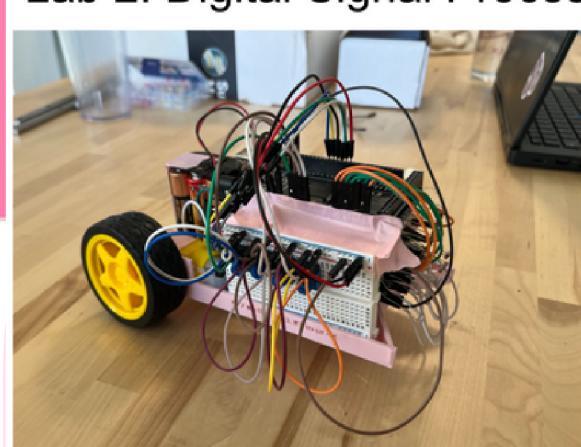


Lab 0: Microcontrollers

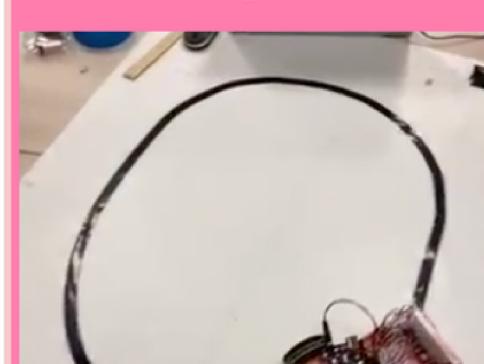


Lab 1: Communication

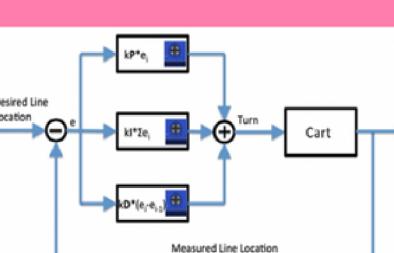
Lab 2: Digital Signal Processing



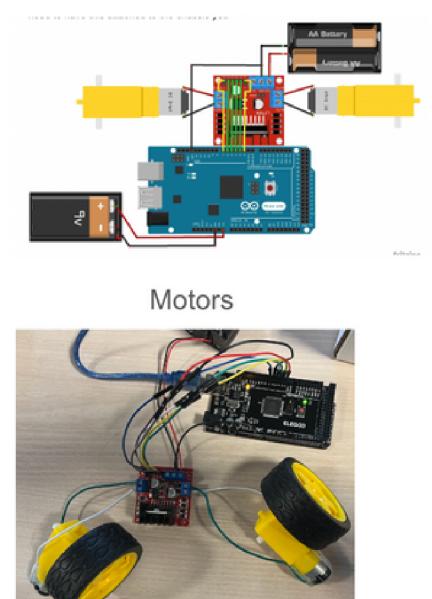
Lab 3: Analog Circuit



Testing the Track with PID Controls!



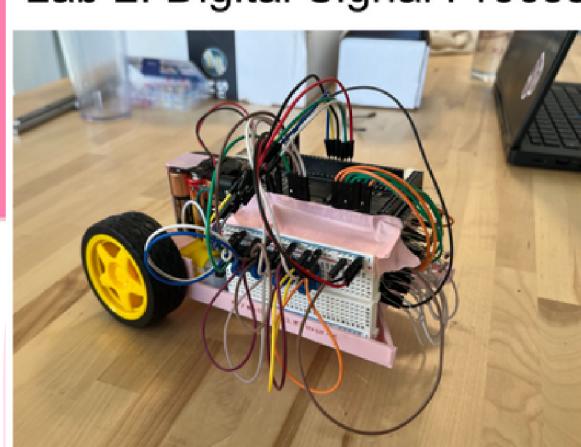
Lab 0: Microcontrollers



Potentiometers

LED Code

Lab 2: Digital Signal Processing



Code meets electrical Components