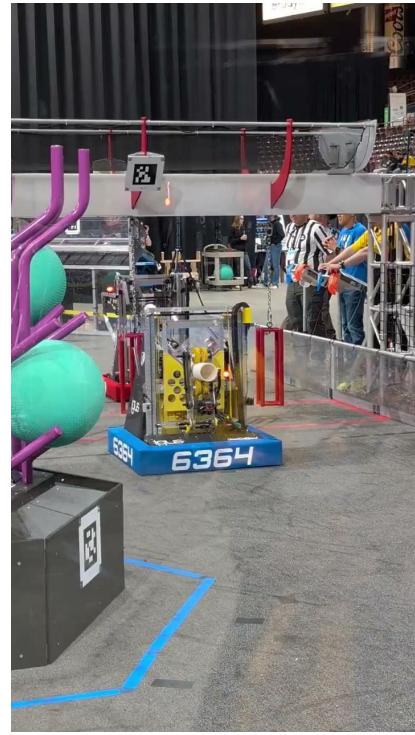


Jadyn Mithani



Digital Portfolio



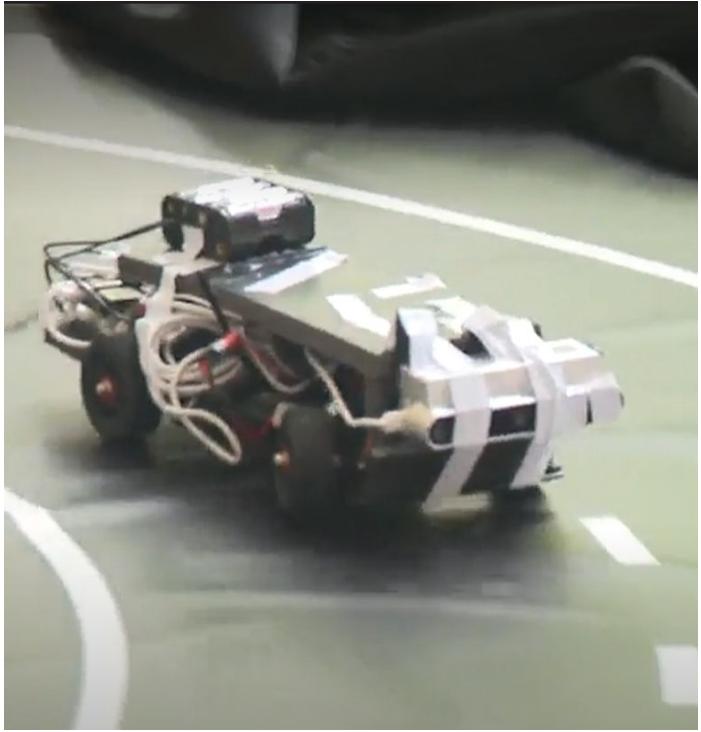
Please click
on the video
to view it

FRC Robot 2024/2025

This robot was built in 2025 for the vex robotics competition. I led development of the entire robot.

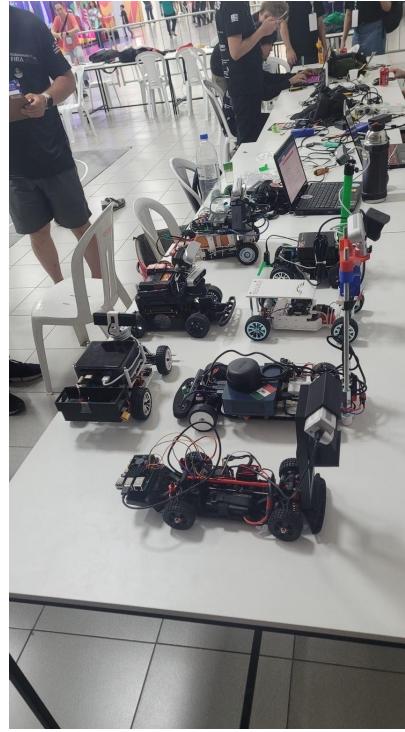
Autonomous Routine

This is a video of the robot's autonomous movement. Everything it does is fully controlled by a computer. All the code for this robot was solely developed by me.



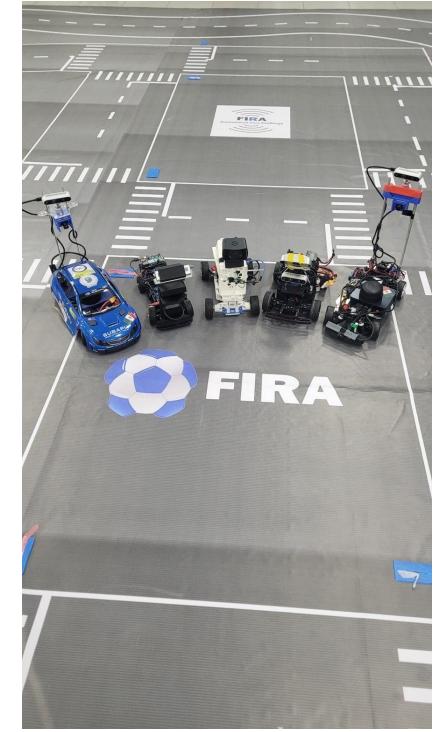
FIRA Self Driving Car 2024

This robot was built in 2024 for the fira robotics competition, initially in 3 weeks but 2 months for the robot we took to brazil that won 2nd place globally.

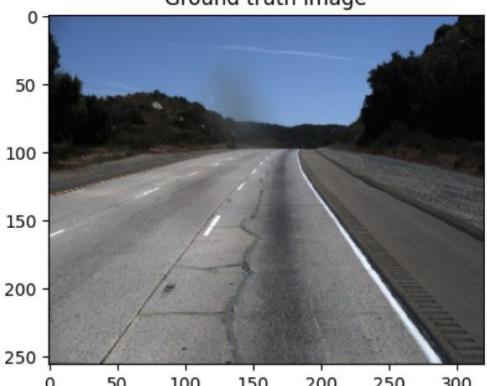


World Championship Car

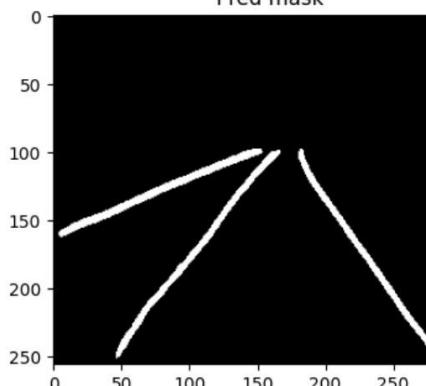
These are photos of the car developed for the world championship and eventually won 2nd.



Ground truth image



Pred mask



AI Model

A clear and intuitive visualization of the AI model I developed for our self-driving car's road perception system. In my view, this represents the pinnacle of my programming abilities: cutting-edge technology that I designed and optimized from the ground up to run efficiently on the vehicle's onboard computer.



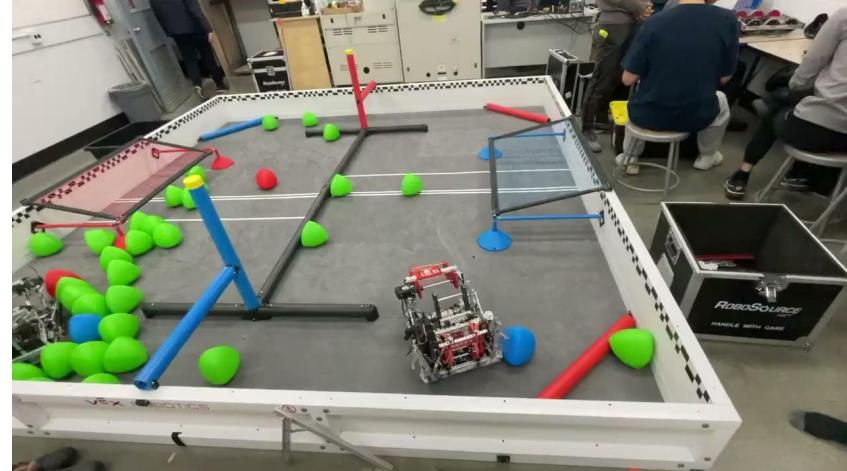
FRC Robot 2023/2024

This robot was built in 2024 for the vex robotics competition. I played a supporting role in the development of this robot, that being said I still made major contributions.

Please click on the videos to view them



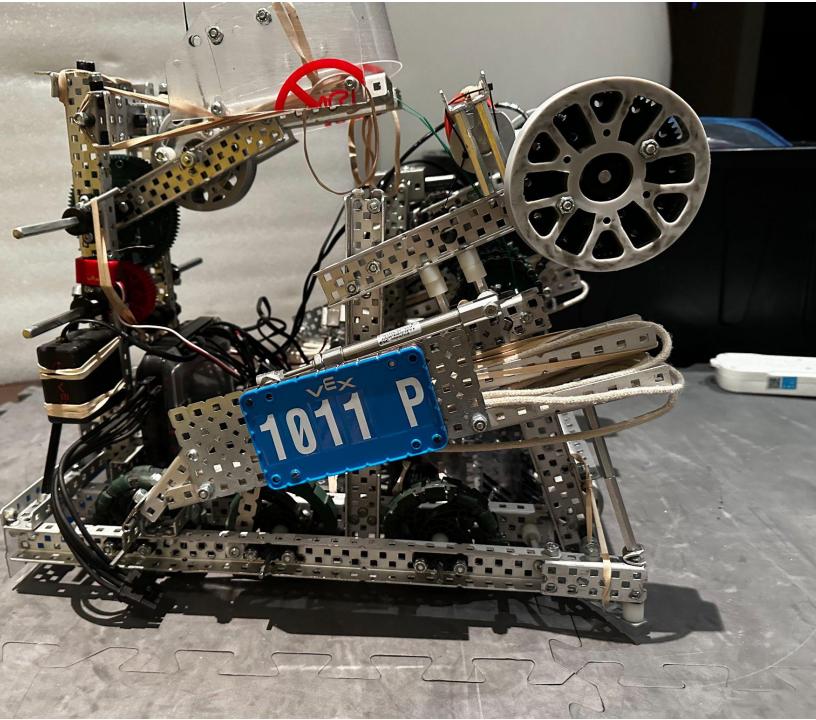
Please click on the videos to view them



Vex Robotics 2022

This is a robot I designed and programmed myself for the vex robotics competition.

The robot had its own specialized wheel encoder based localization system and was able to autonomously navigate a given field smoothly using



Vex Robotics 2021

This is a robot I designed and programmed myself for the vex robotics competition.