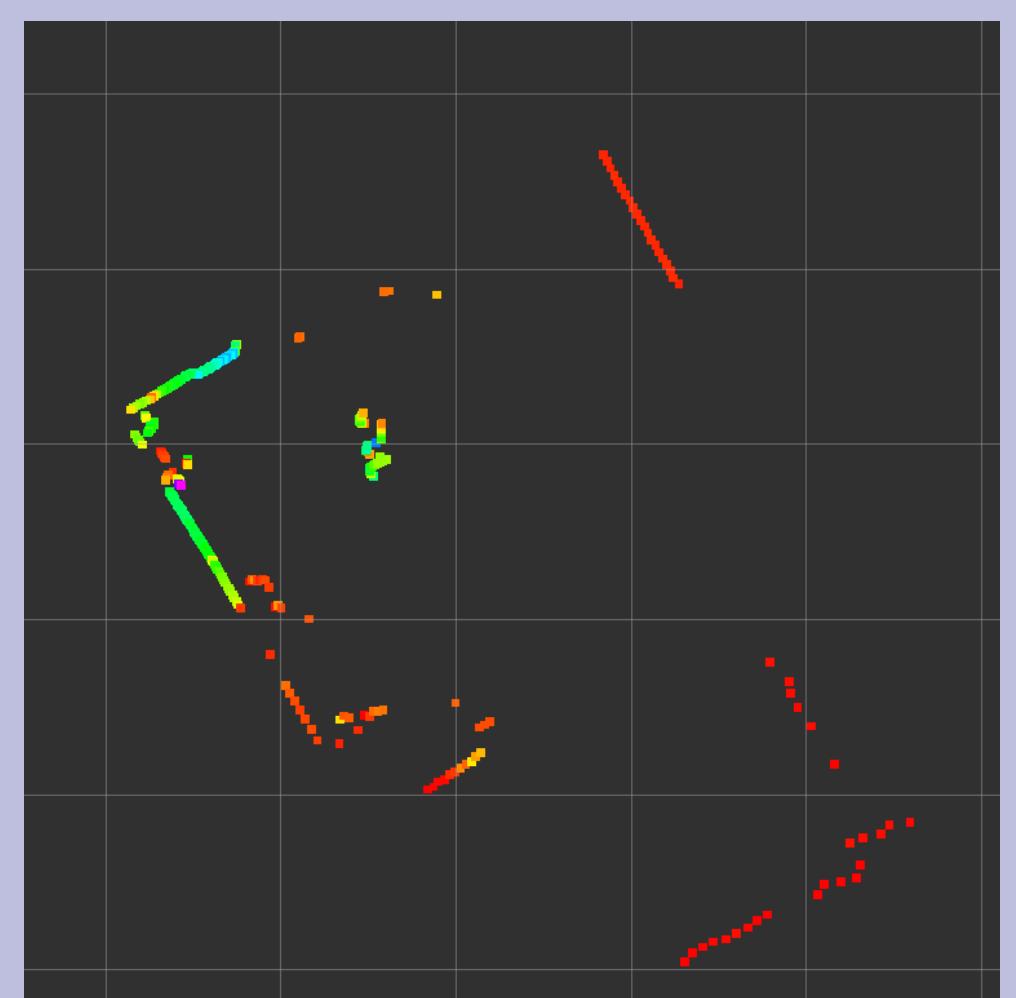


What Does the Future of Safe, Secure and Reliable Autonomous Driving Look Like? A 1/10th-the-Size Autonomous Research Vehicle

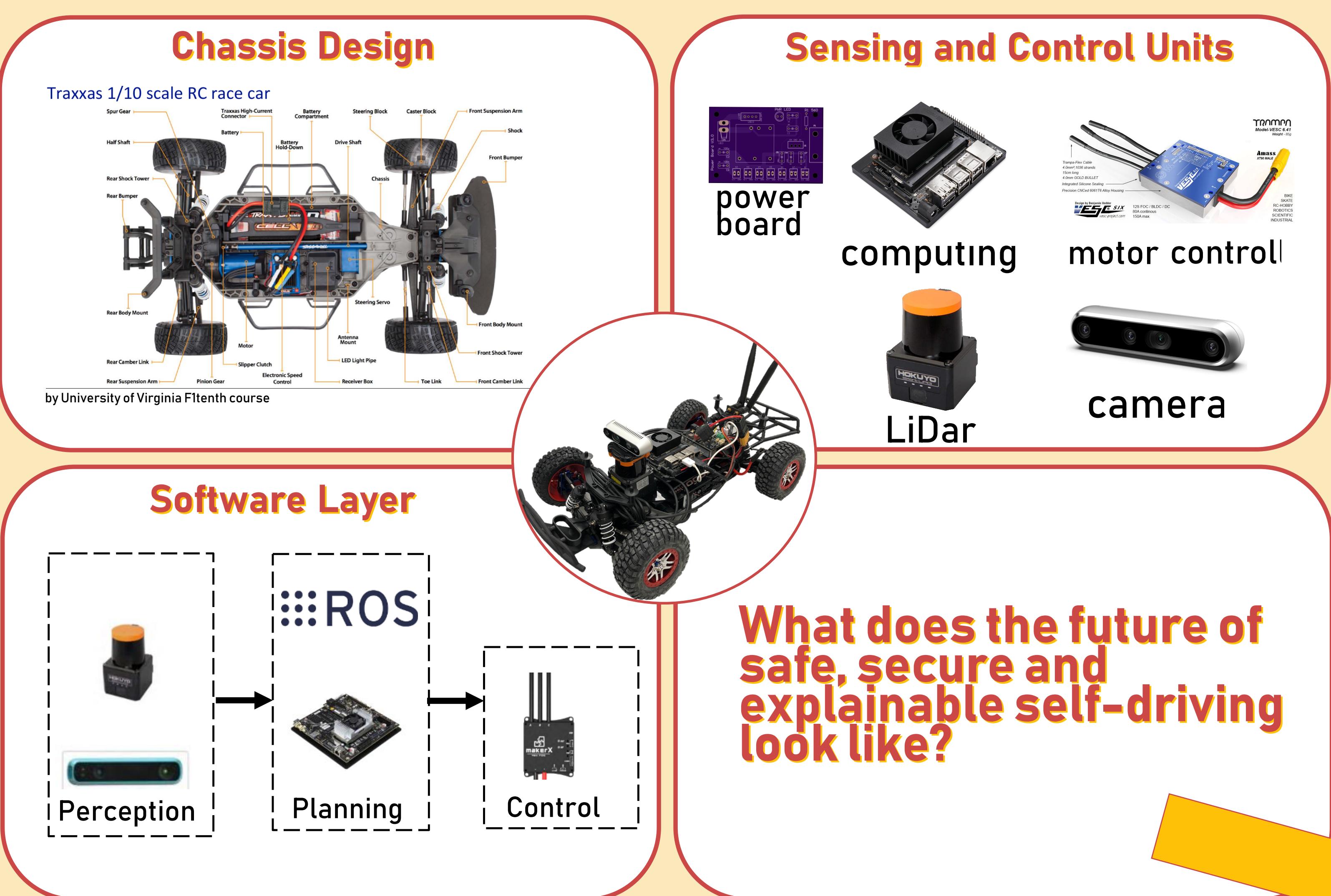
Edinburgh Science Festival Demo

A Live lidar scans

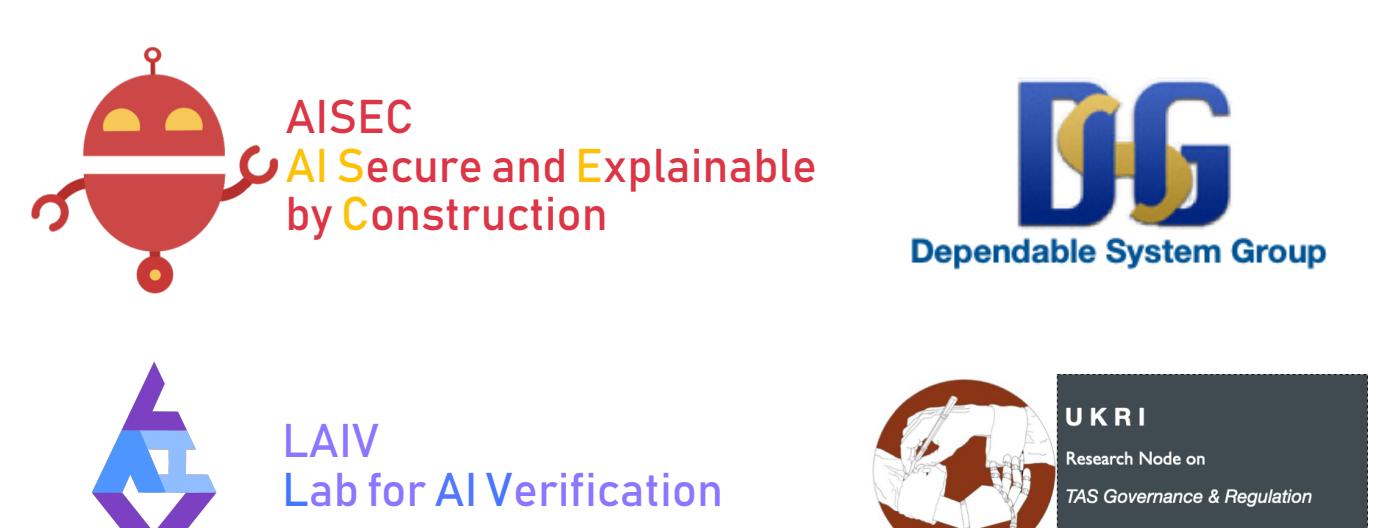


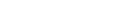
B Program it yourself!

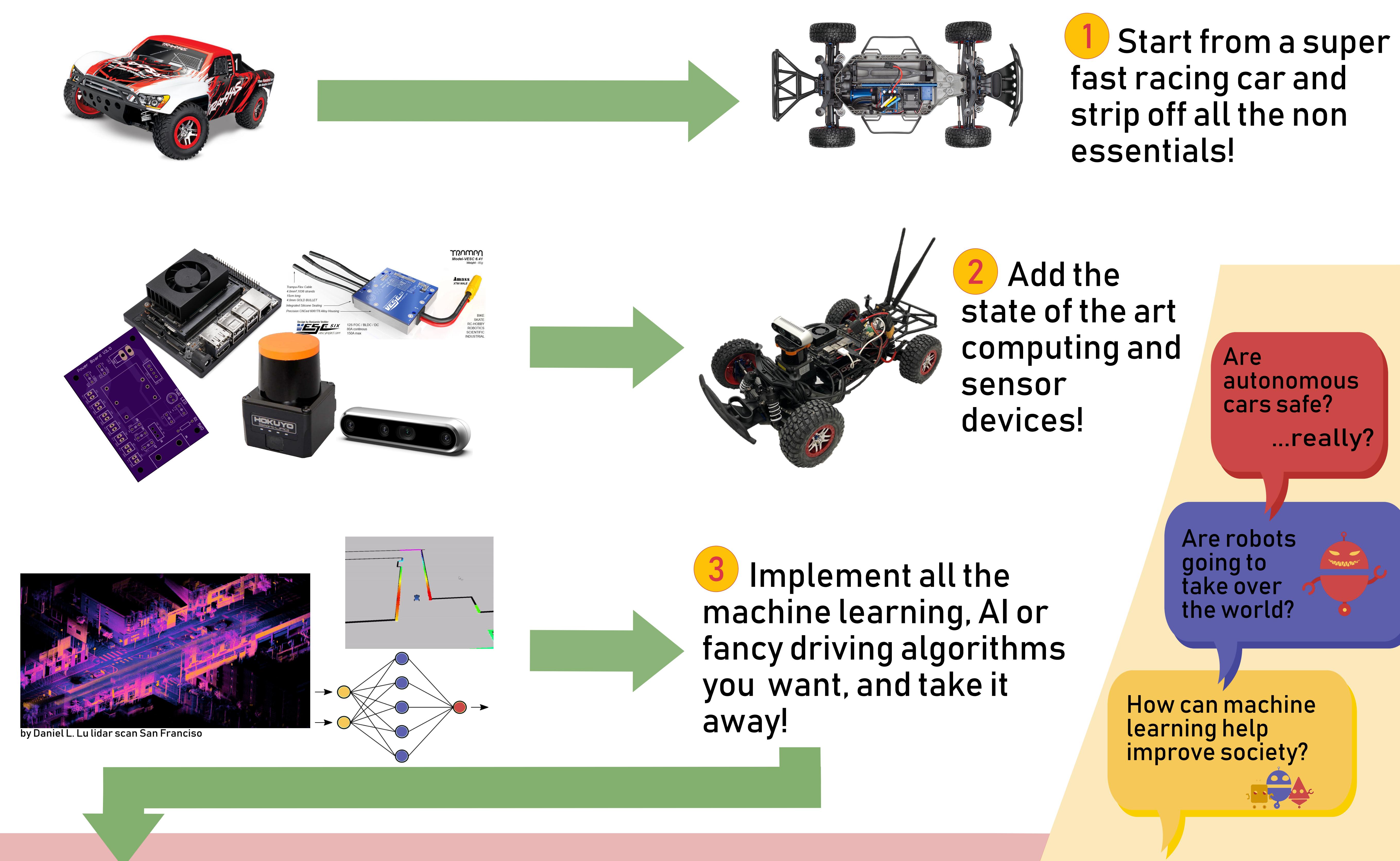
- i choose your path
 - ii create an algorithm
 - iii watch it run!



Partners



Credits for car build
instructions to: f1tenth.org 

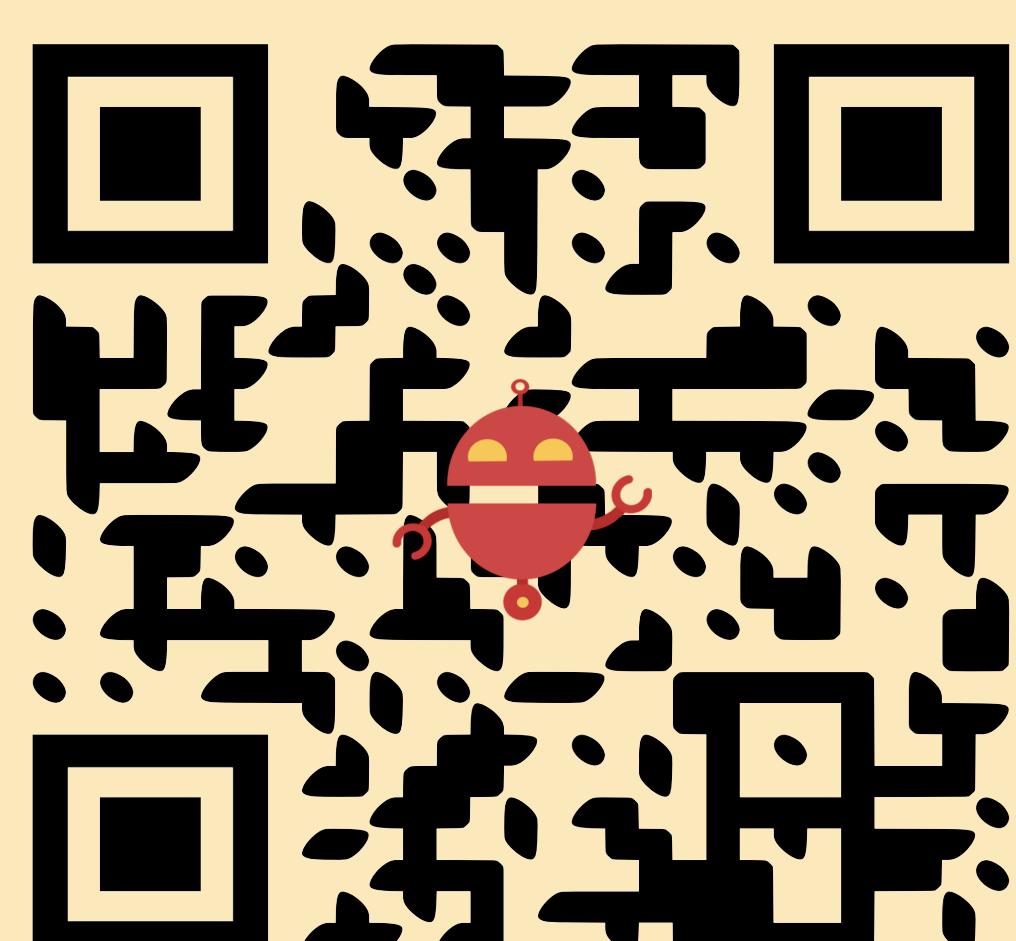


Our research applications

- The collage consists of six panels, each featuring a yellow circular icon with a red center:

 - Generating LIDAR Data in Adverse Weather using GANs**: An image of a 3D point cloud representing a scene with trees and a road.
 - Formally verified Car Controllers**: A diagram showing a sequence of four colored regions (Pass parking, Avoid/Follow, Head-on, Turn) with arrows indicating transitions between them. Labels include "Orientation", "STOP", "Static", "Passive", and "Passive-friendly".
 - Optimal Autonomous Racing Strategy for One-on-One Racing**: An image of two Formula 1 cars racing on a track, with a person holding a checkered racing flag in the foreground.
 - Explorable Self Driving Algorithms**: An image of a glowing blue brain with the text "eXplainable AI" overlaid, set against a background of circuit board patterns.
 - Is Reinforcement Learning a Better Driver than a Human?**: An image of a human runner and a robotic runner in starting positions, facing each other, with the word "VS" between them.
 - Can Event-Based Cameras Improve Reliability of Self-Driving Cars?**: Two side-by-side images labeled "Conventional Camera" and "Event Camera", showing a scene with a person running. The event camera image shows more detail and clarity in low-light conditions.

find out more





Ask Us Anything