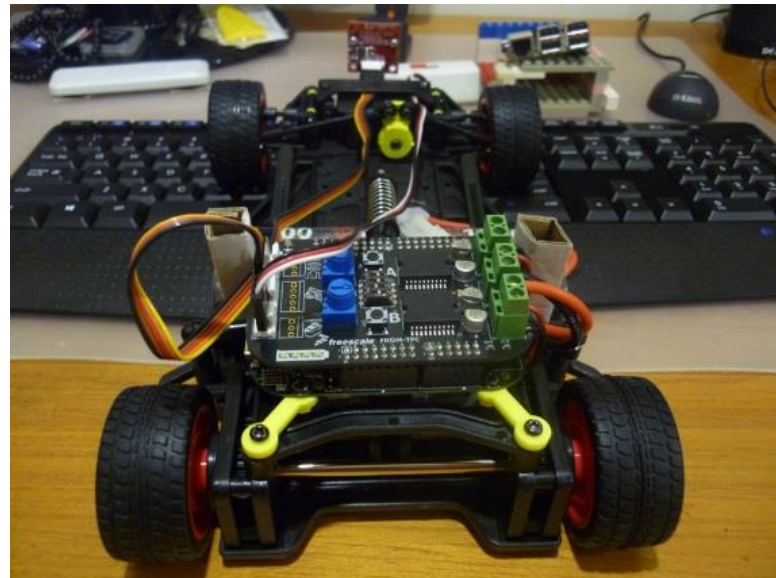


# Autonomous car with the FRDM-KL25Z board

Germán Rivera  
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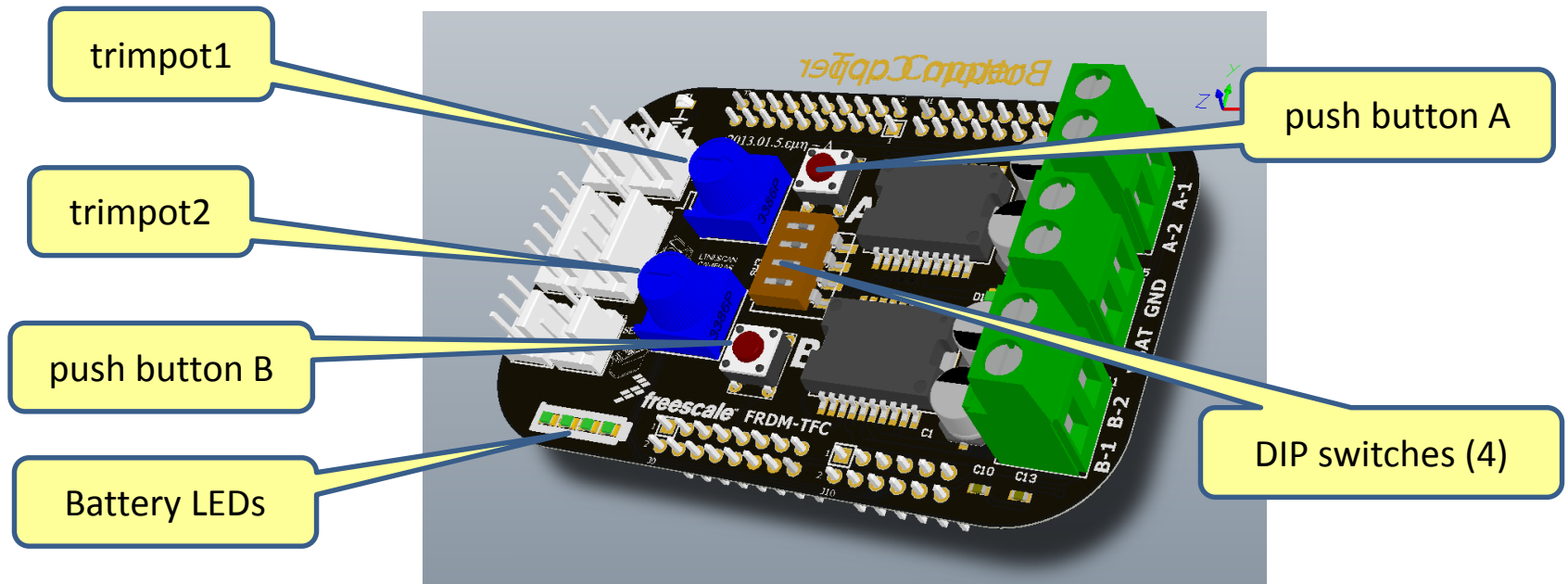
# Overview

- Hardware Platform for the autonomous car project
  - TFC-KIT: The NXP Cup Intelligent Car Development System
    - FRDM-KL25Z board
    - TFC-shield board
    - Line scan camera board
    - Wheel DC motors
    - Steering servo

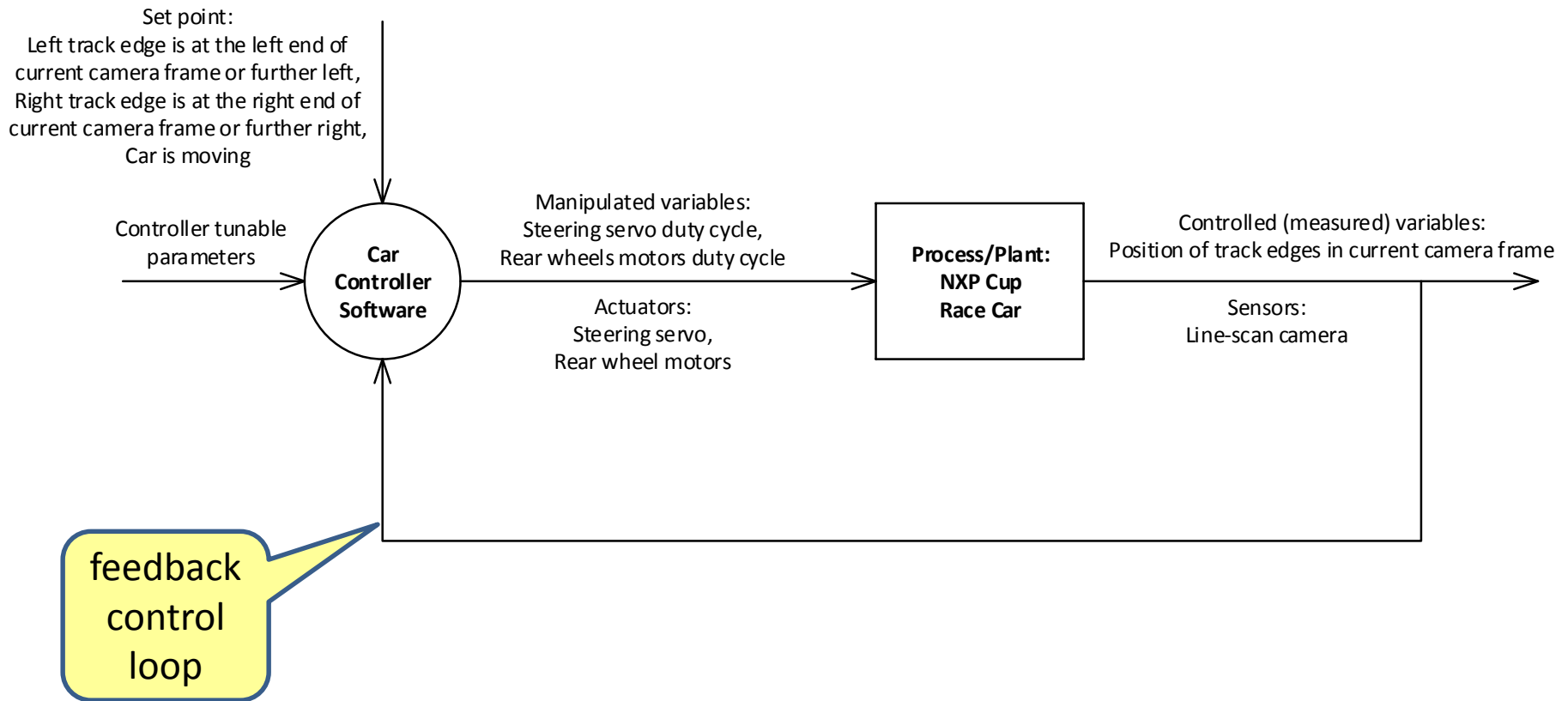


## Overview (2)

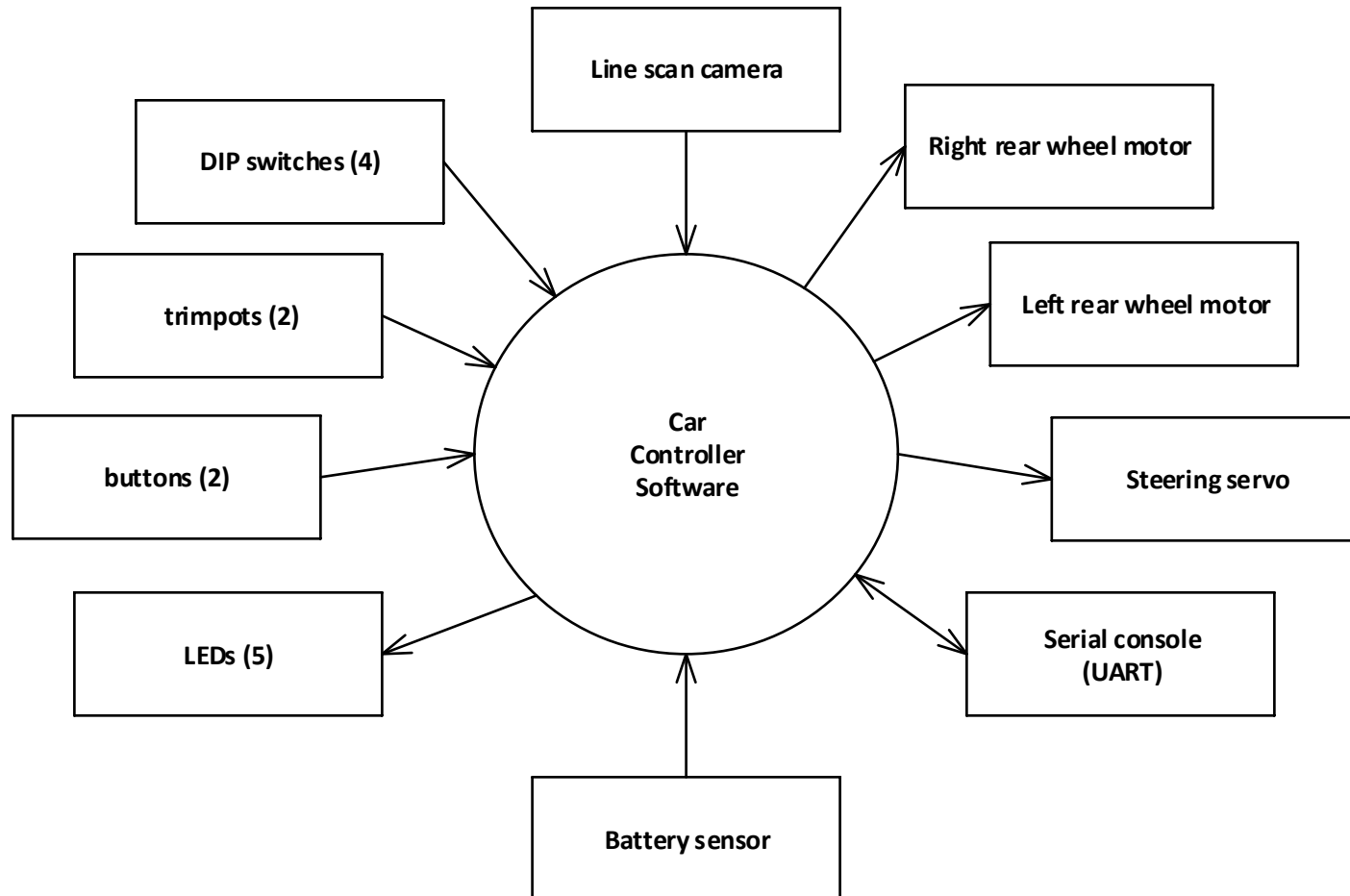
- TFC Shield User Interface Elements



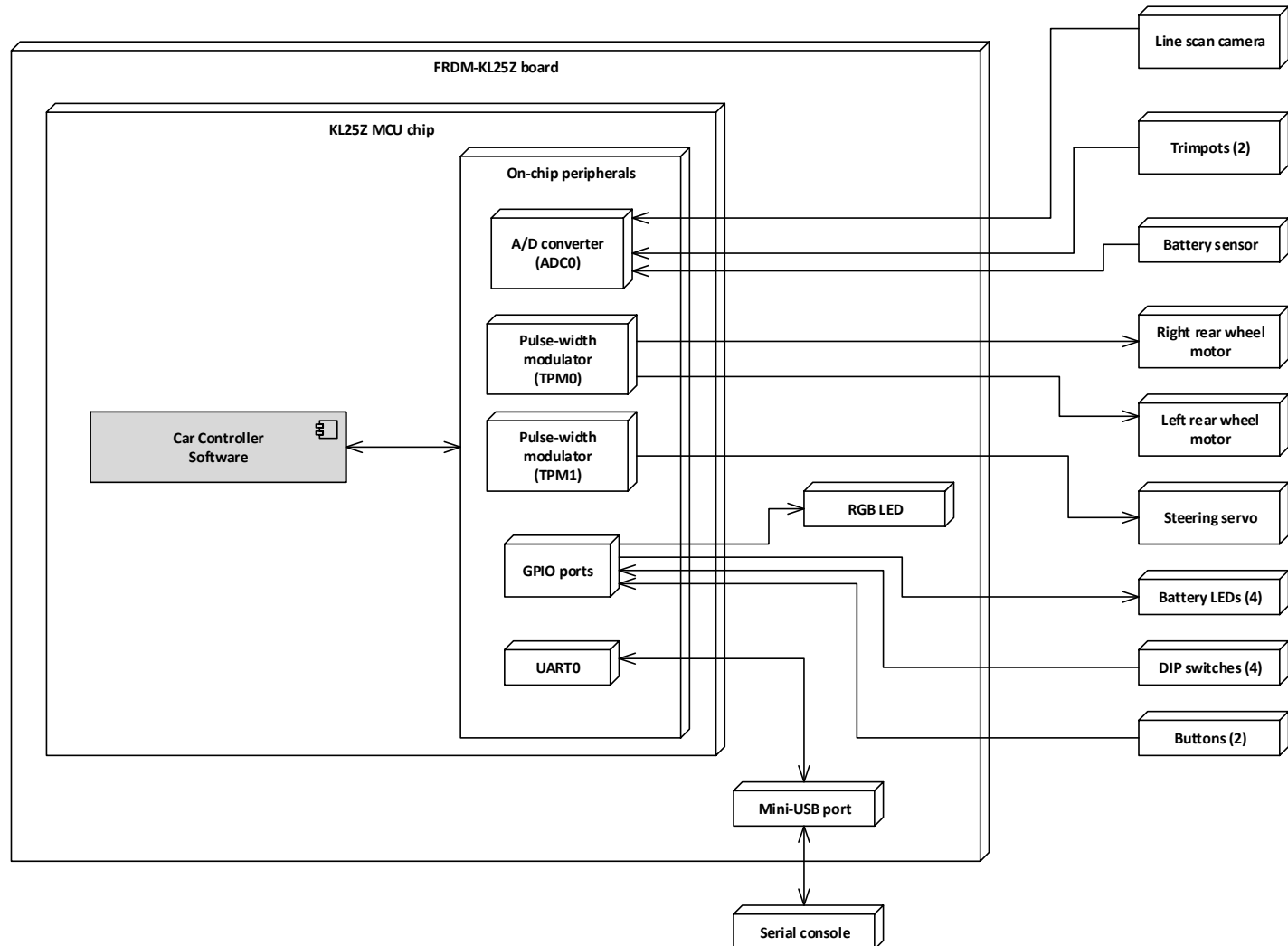
# Process Control Problem Formulation



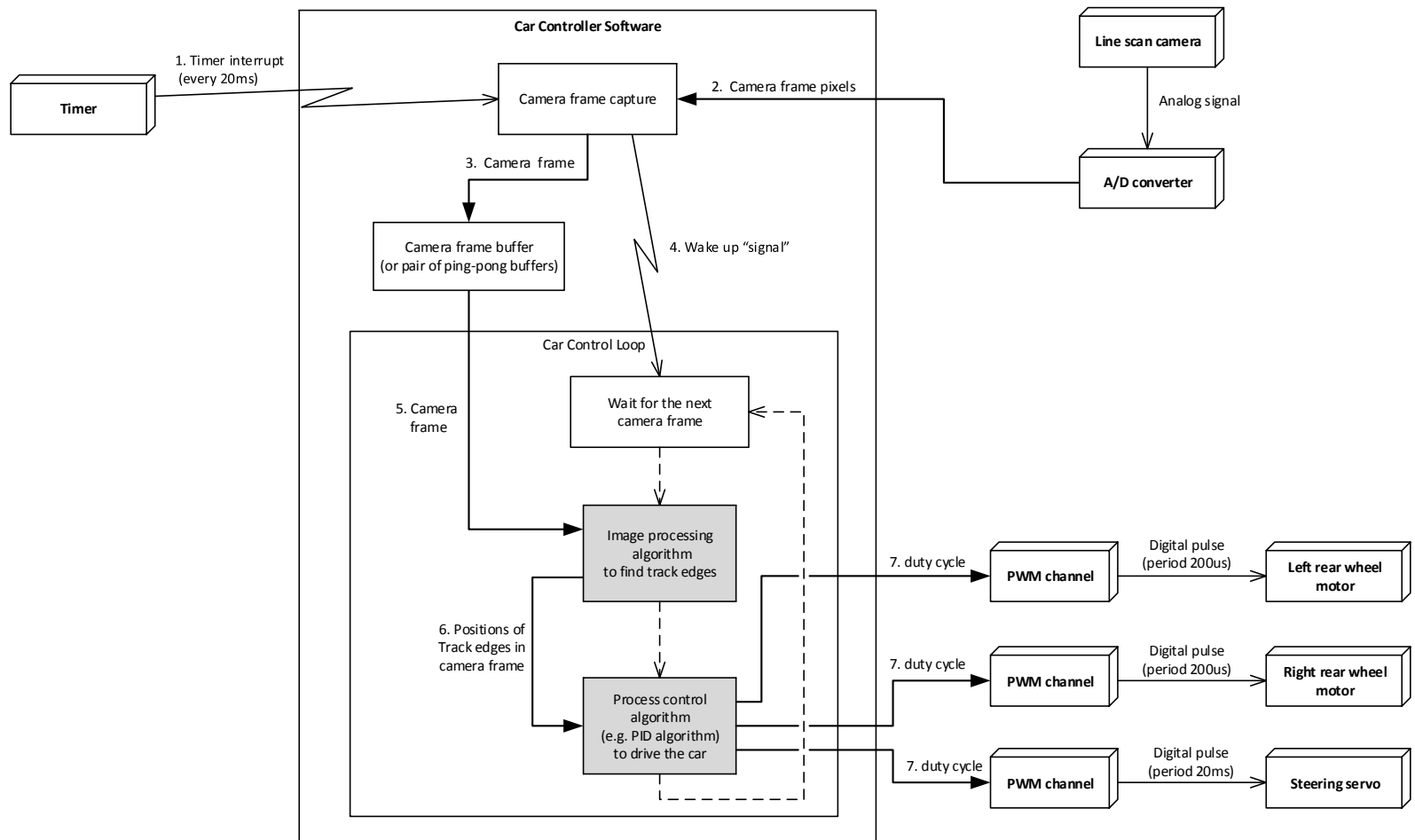
# Software Context Diagram



# Hardware Context Diagram



# Control Software High-level Architecture



Legend:   
 → Data flow   
 - - > Sequence flow   
 ⚡ Interrupt or signal   
 → Electrical signal