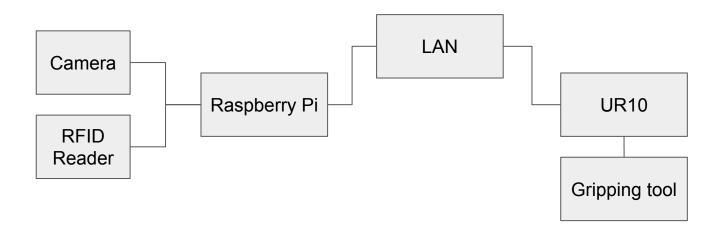
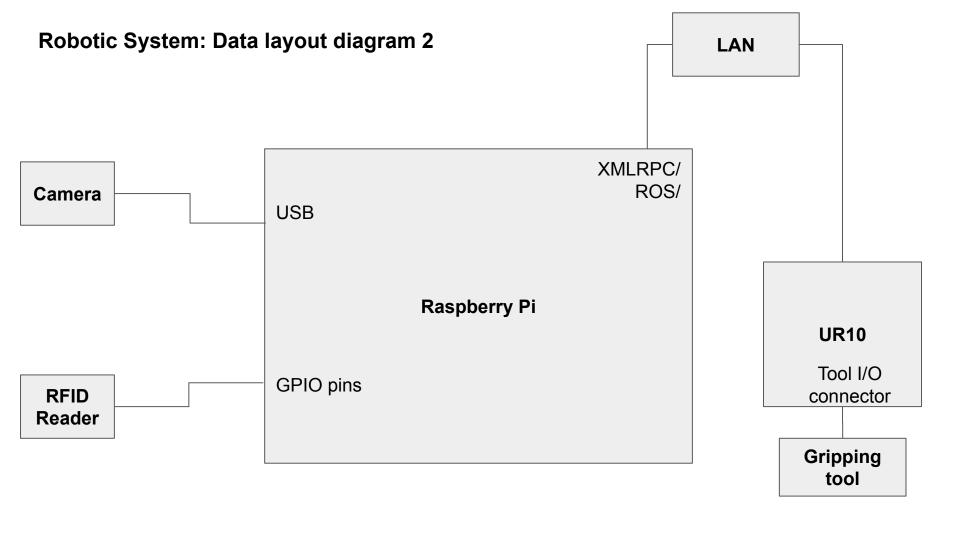
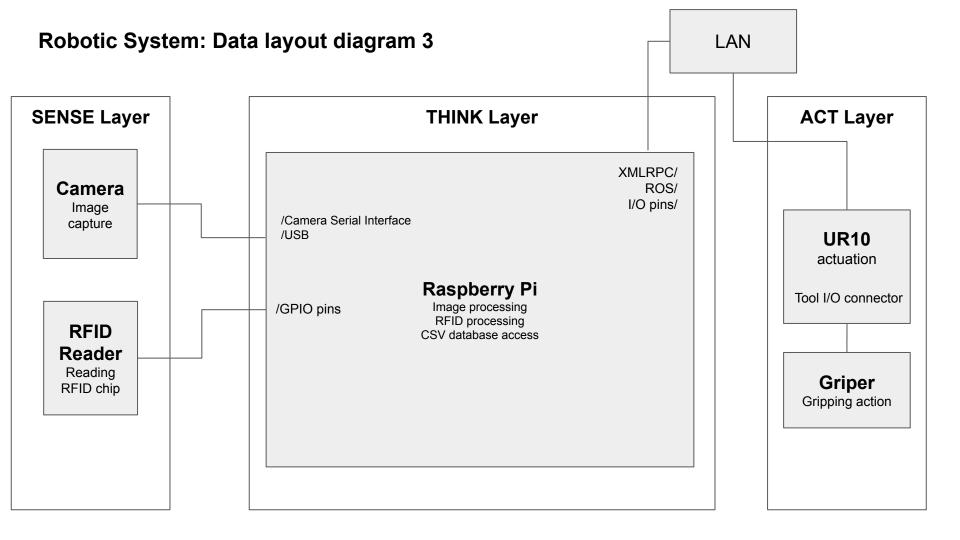
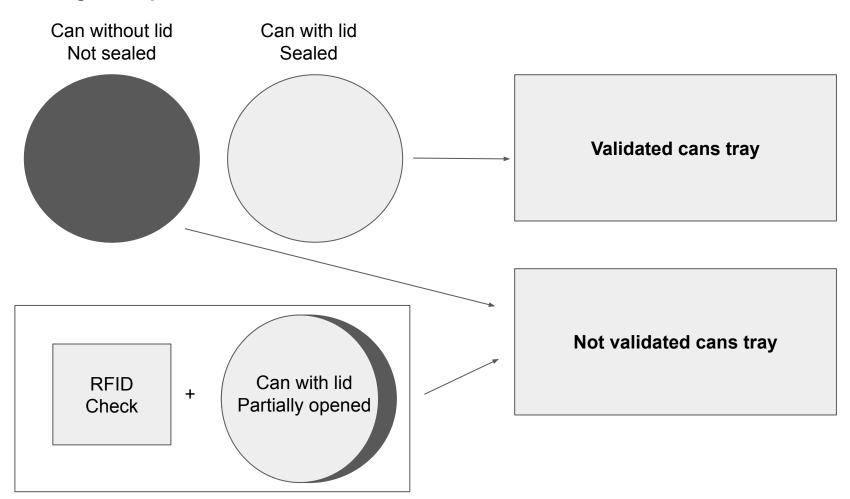
### **Robotic System: Data layout initial**

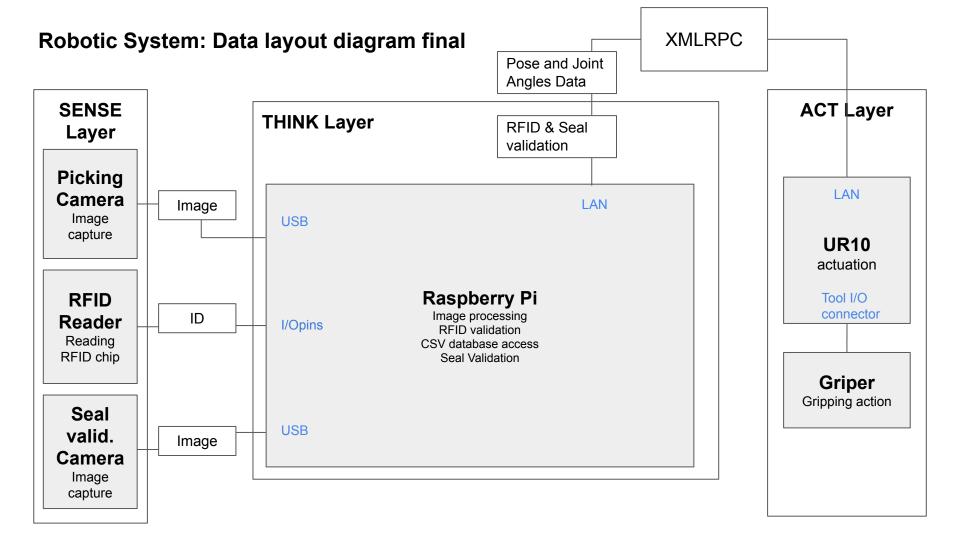






#### Can diagram: top view

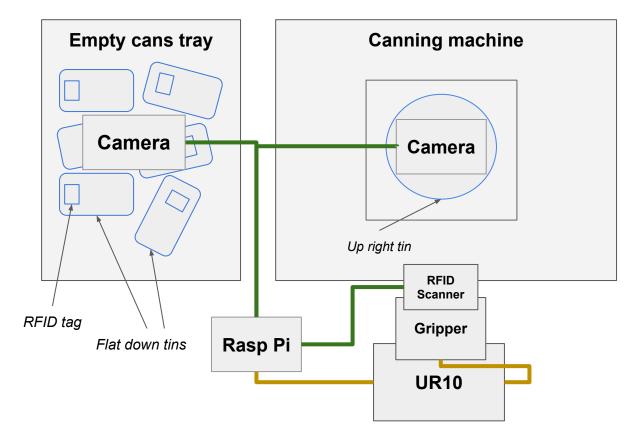


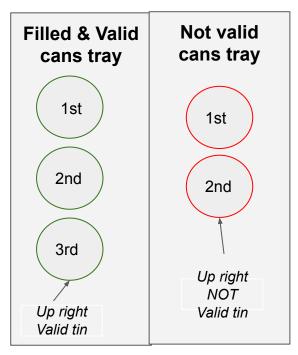


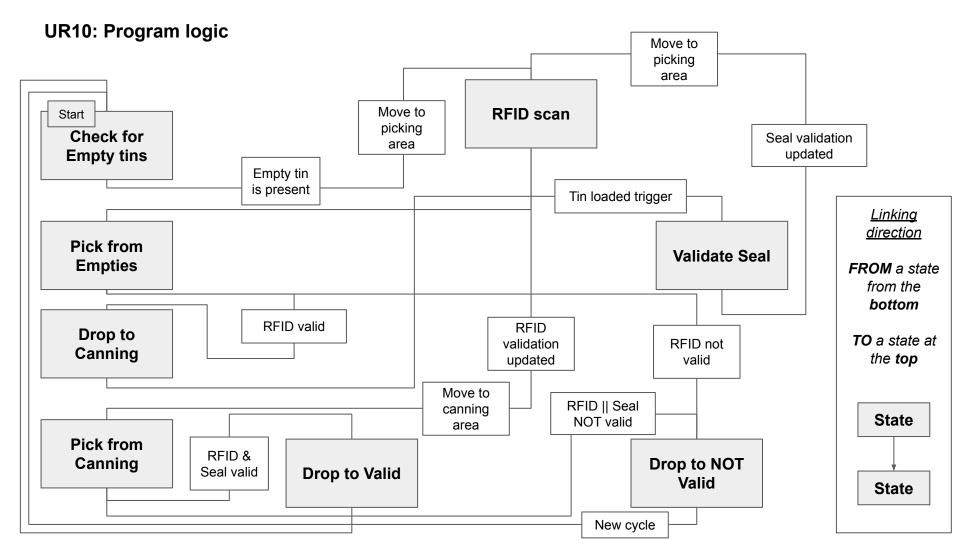
#### **Robotic System: Physical layout**

Sensor data link

Actuation data link

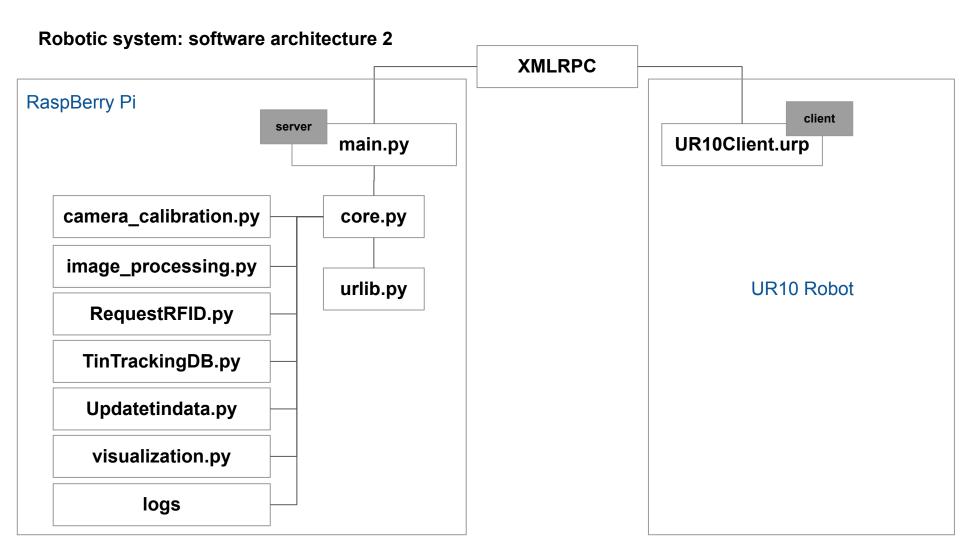


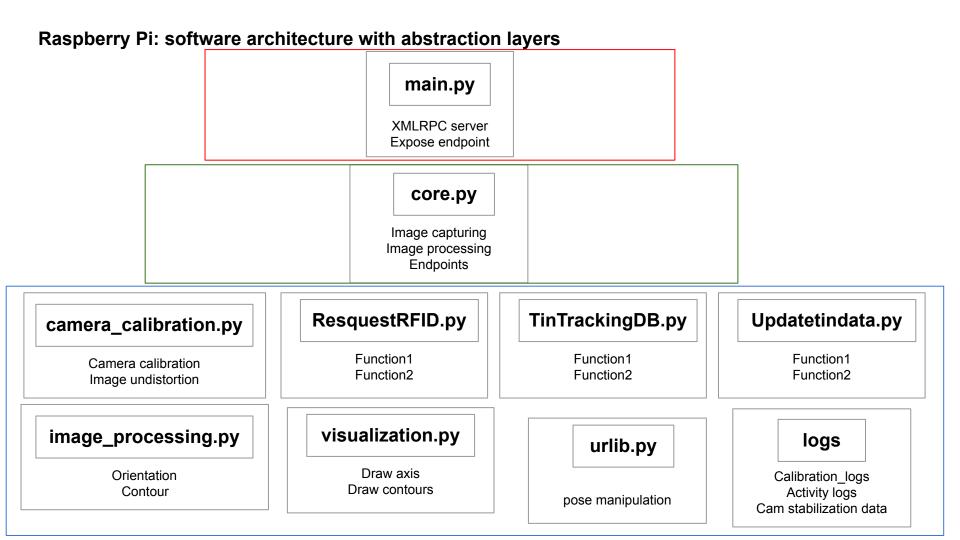




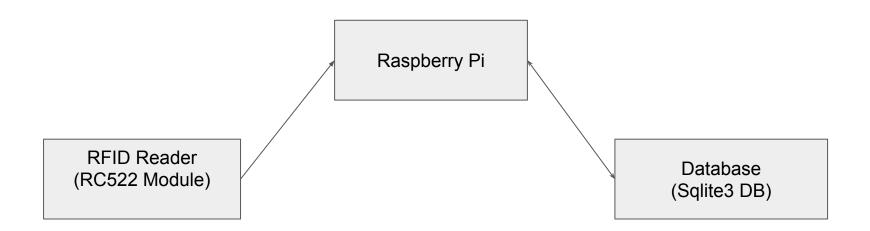
#### Robotic system: software architecture 1





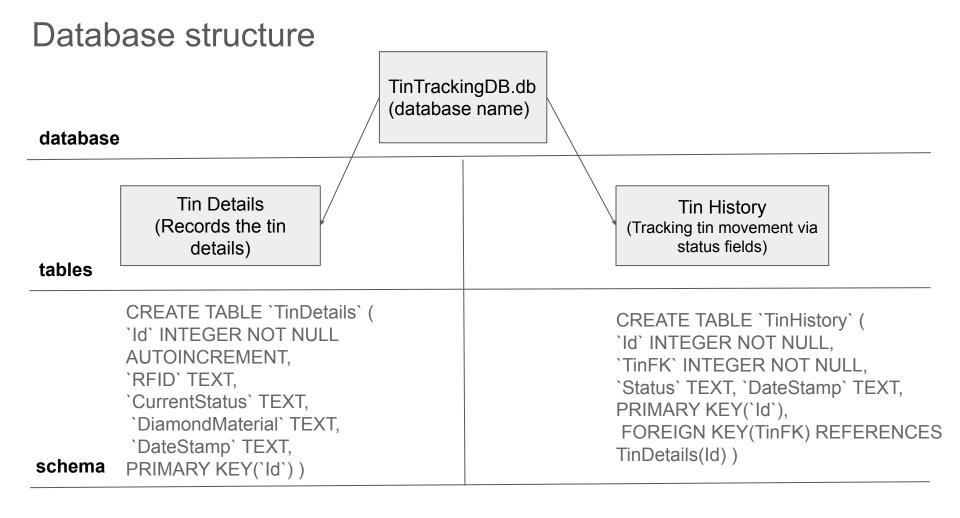


# **Tin Tracking Architecture**



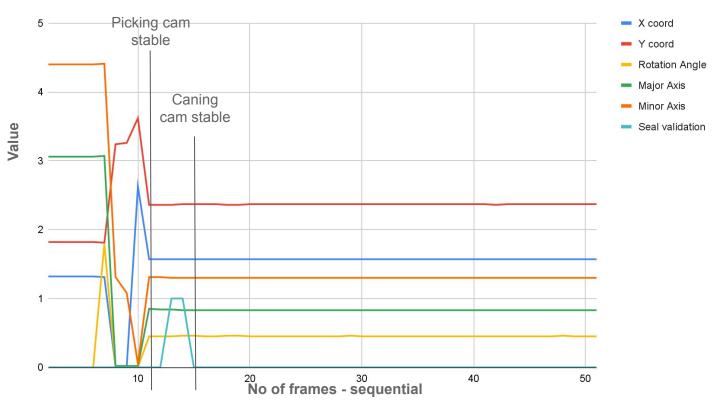
### **RC522 Connection**

Pin	Wire Colour	RC522 Connection
1	Pink	Power
6	Pink with Tape	Ground
19	Purple with Tape	MOSI
21	Purple	MISO
22	Grey	RST
23	Orange	SCK
24	Brown	SDA
-	-	IRQ

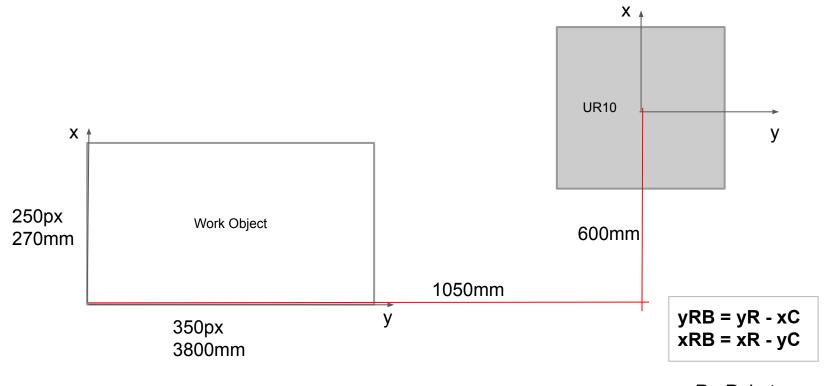


# Camera (picking and caning): Frame stabilization timeline from 0 to 50 frames





# Picking camera: work object information in relation to UR10 base (integration)



• z = 0, and does not require transformation

R - Robot

C - Camera

Picking camera: tin rotation 0 to 180 degrees in relation to UR10 base (integration)

