KU LEUVEN

Faculteit Industriële ingenieurswetenschappen / Elektronica - ICT

Dylan Van Assche, Anton Peeters, Olivier Van Den Eede, Cédric Gullentops, Simon Vandevelde

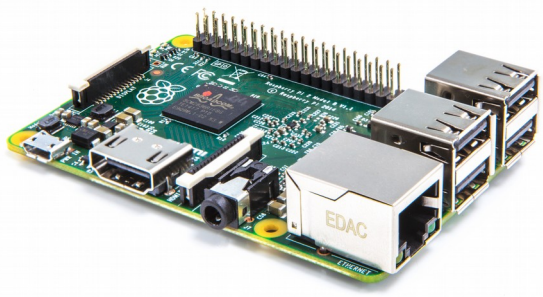
CoaCo: Cold Drink Fetcher

Mission

1) Look for cans
2) Differentiate between cold (good) and warm (bad) cans
3) Move the warm can over to the bin
4) Loop to step 1)

Design

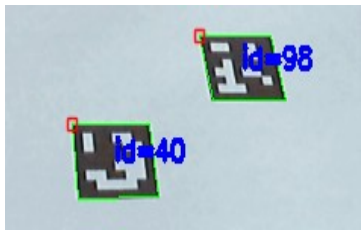
Perception	Decision	Actuation
• Thermal camera • Raspicam	• Raspberry pi	• Motor: Control wheels • Gripper



Features

Can Detection

AruCo detection



Thermal imaging

Timeline

	20/2	27/2	6/3	13/3	20/3	27/3	3/4	27/4	8/5
Introduction	■								
Basic Functions • Driving and grabbing • Reading the cameras		■	■						
Next-level functions • Orientation • Can detection				■	■	■	■		
Integrate							■	■	
Test								■	■