

When testing the functionalities it is important to clearly define what the expected behaviour would be before performing the test.

0.1 Test cases

Stage 1				
#	Objective	Steps	Expected result	P/F
1.1	Forward movement	1.Flash stage 1 code 2.Place forklift down on the floor 3.Press start	The forklift moves forward a arbitrary distance	
1.2	Backward movement	—” —	The forklift moves backward a arbitrary distance	
1.3	Forward right movement	—” —	The forklift moves forward and right a arbitrary distance and angle	
1.4	Forward left movement	—” —	The forklift moves forward and left a arbitrary distance and angle	
1.5	Stationary right turn	—” —	The forklift turns right a arbitrary angle	
1.6	Stationary left turn	—” —	The forklift turns left a arbitrary angle	
1.7	Read battery voltage	1.Measure the battery voltage with a multimeter 2.Flash stage 1 code 3. Read displayed voltage in display	The multimeter measurement and display value should be the same with a tolerance of 2%	
1.8	Battery voltage low	—” —	The forklift should not start when the start button is pressed. Instead it should prompt the user that the battery needs to be charged.	

Stage 2				
#	Objective	Steps	Expected result	P/F
2.1	Movement following the line path	1.Flash stage 2 code 2.Place the forklift on line 3.Press start	The forklift should follow the line path when moving at a arbitrary speed.	
2.2	Detected obstacle stop	—” —4.Place obstacle on path	The forklift should stop before hitting the obstacle	
2.3	Detected obstacle start	1.Run test case 2.2 first. 2.Remove obstacle for the path	The forklift resumes it movement along the path	

Stage 3				
#	Objective	Steps	Expected result	P/F
3.1	Move fork up	1.Flash stage 3 code 2.Place the forklift on line 3.Press start		
3.2	Move fork down	—” —		
3.3	Move fork to minimum	—” —		
3.4	Move fork to maximum	—” —		
3.5	Detected pallet	—” —	The forklift should detected and move into position of the pallet	
3.6	Move pallet up	—” —	The forklift should move the forks under the pallet and move it up a arbitrary distance	
3.7	Move with pallet	—” —	The forklift lift should move with the pallet to the destination point along the path	
3.7	Move pallet down		The forklift lift should move the pallet down to ground level	