YEAR 1						YEAR 2						YEAR 3						YEAR 4					
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48

Task A: Literature Review Task B: Simulated Collaborative Cell

Visual Environment
Collision Environment
Robot Movement Simulation
Sensor data simulation

Task C: Multi-modal Multi-sensor Calibration

Fixed sensors calibration
Hand-eye calibration
Full system calibration

Milestone 2 2

Milestone 1 1

Task D: Volumetric Monitoring

Create a volumetric map using voxel grids

Extension to the multi-sensor case

Task E: Advanced Perception

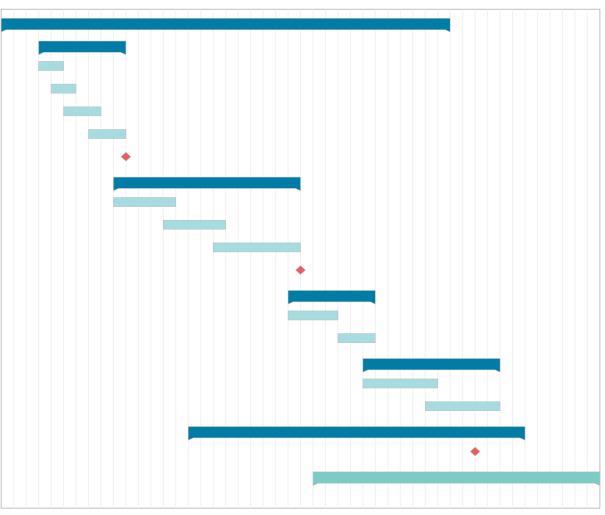
Object Detection

Human Pose and Gesture Detection

Task F: Testing in Real Environments

Milestone 3 3

Document and writing



¹Milestone 1: Log file with simulated data of sensors, robot data and collisions

 $^{^2}$ Milestone 2: Calibration of a simulated data to verify the accuracy of calibration

 $^{^3}$ Milestone 3: Demonstration in which the robot doesn't collide and is able to pick objects