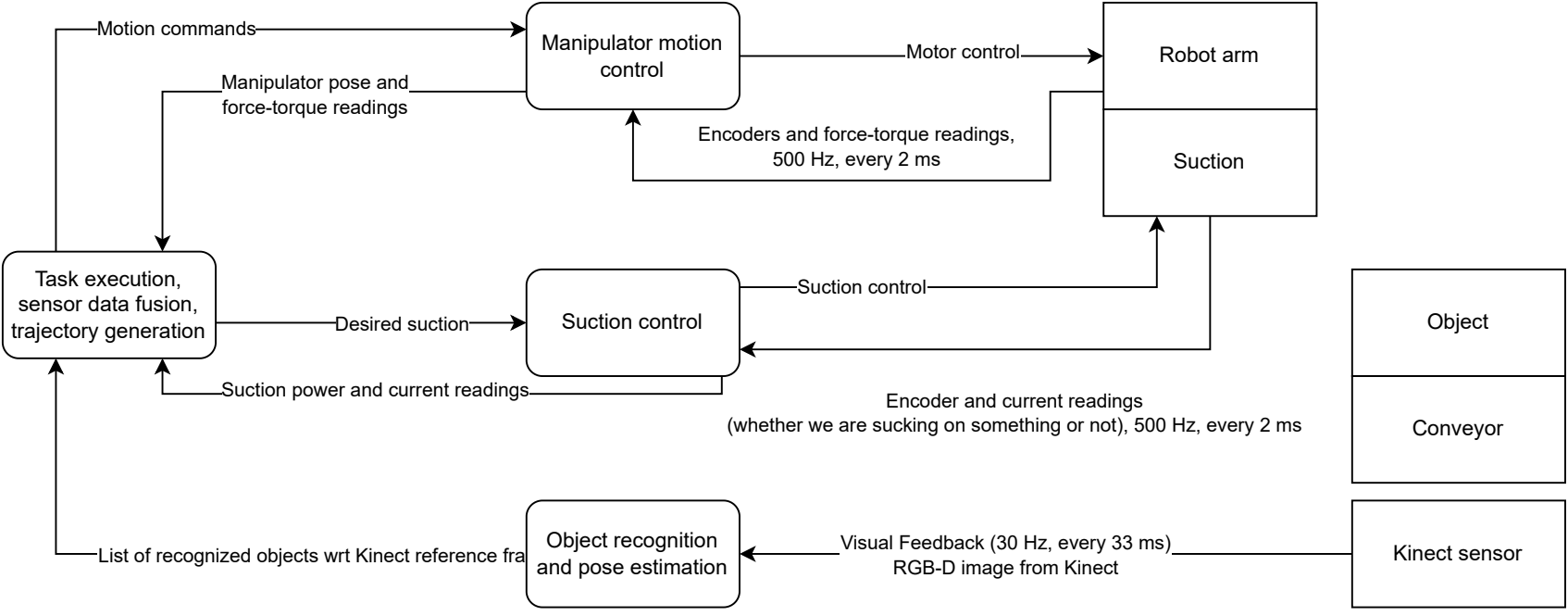
Motion commands
Manipulator motion control
Motor control
Robot arm
Manipulator pose and force-torque readings
Encoders and force-torque readings, 500 Hz, every 2 ms
Suction
Task execution, sensor data fusion, trajectory generation
Desired suction
Suction control
Suction control
Suction power and current readings
Encoder and current readings (whether we are sucking on something or not), 500 Hz, every 2 ms
Object
Conveyor
List of recognized objects wrt Kinect reference fra
Object recognition and pose estimation
Visual Feedback (30 Hz, every 33 ms)
RGB-D image from Kinect
Kinect sensor