

# Platform requirements

**Prize:** The overall prize of the system should ideally not exceed 30.000 € including VAT

**Availability:** The system should be commercially available at least in the US, Europe, Japan and China

## A.1 Robot manipulator

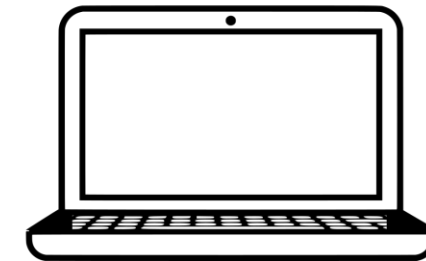
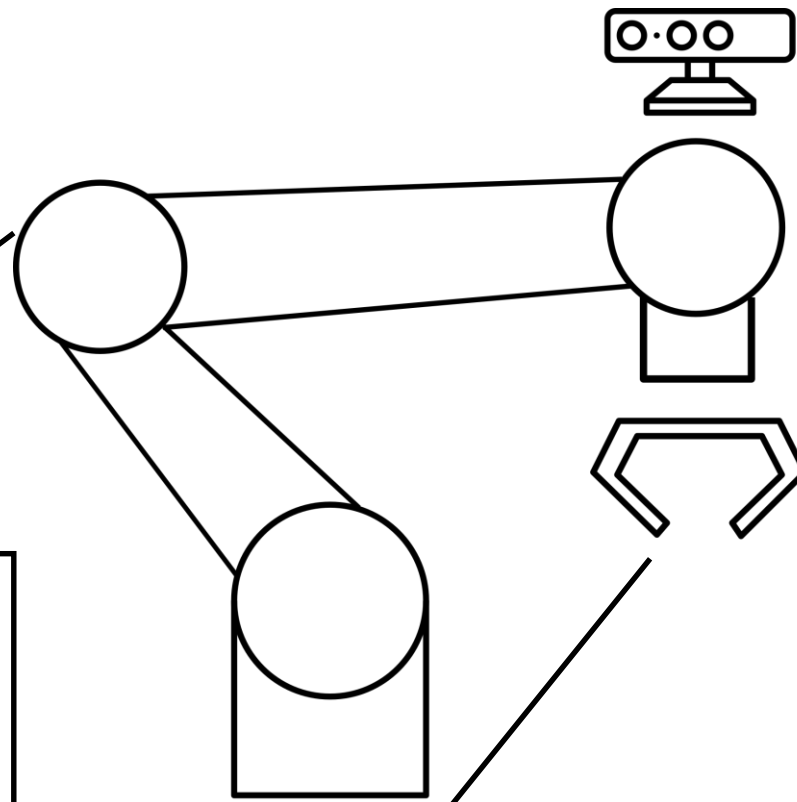
- Minimum requirements:
  - At least 6 DoF
  - Joint velocity interface
  - Payload 1 kg
  - Control API
  - Position and velocity measurements
- Ideal requirements:
  - 7 DoF
  - Joint torque interface
  - Control rate 1 kHz
  - At least 3 kg at 0.5 m/s
  - Position, velocity, torque, external torque and external wrench measurements

## A.2 End effector

- Minimum requirements:
  - Two finger gripper
  - Position controlled
- Ideal requirements:
  - Dexterous hand
  - Torque controlled
  - Control rate 1 kHz

## A.3 Camera

- Minimum requirements:
  - RGB-D camera
  - Resolution 640 x 480
  - Refresh rate 15 Hz
- Ideal requirements:
  - Resolution 1920 x 1080
  - Refresh rate 60 Hz



Specify a suitable computer system to control the proposed full setup