

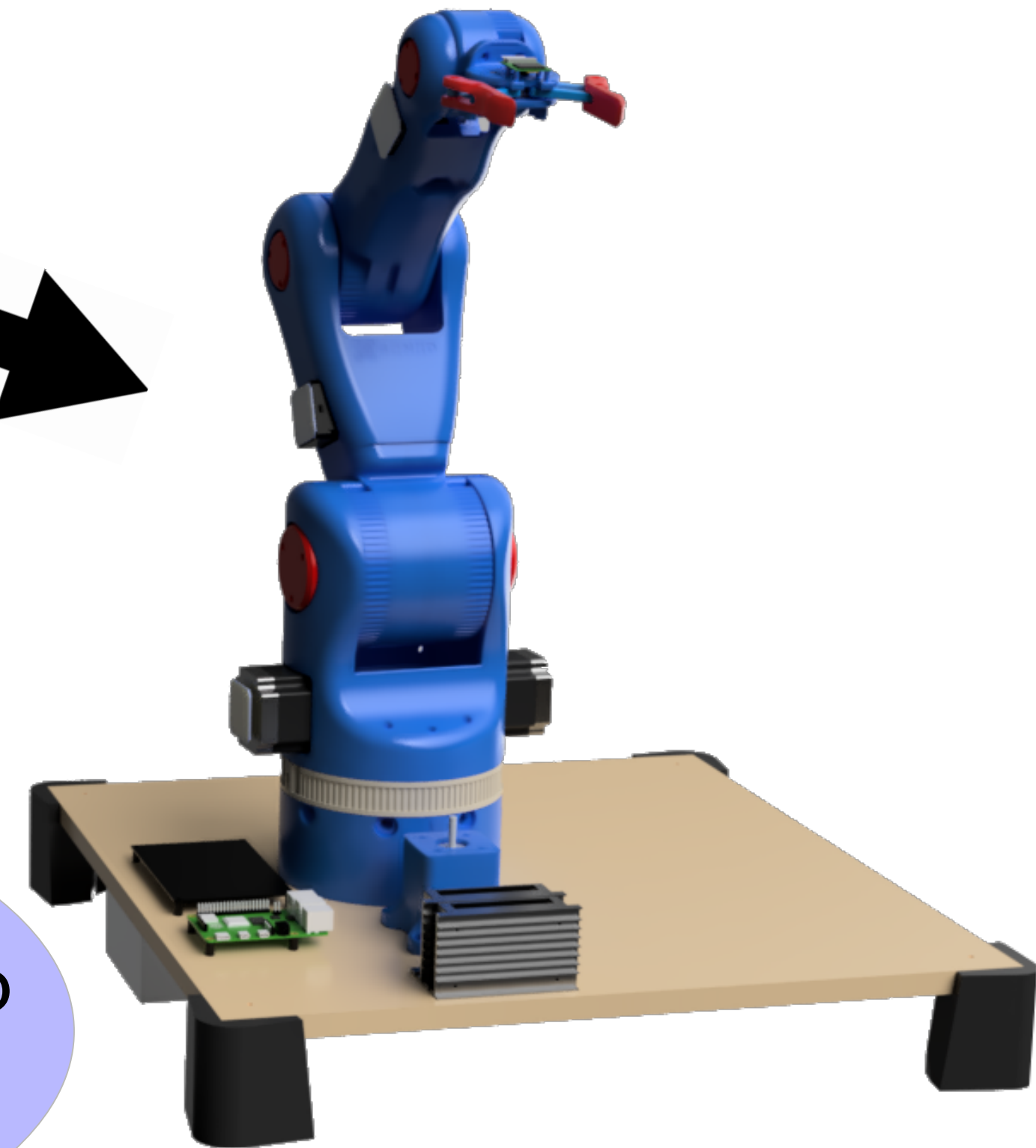
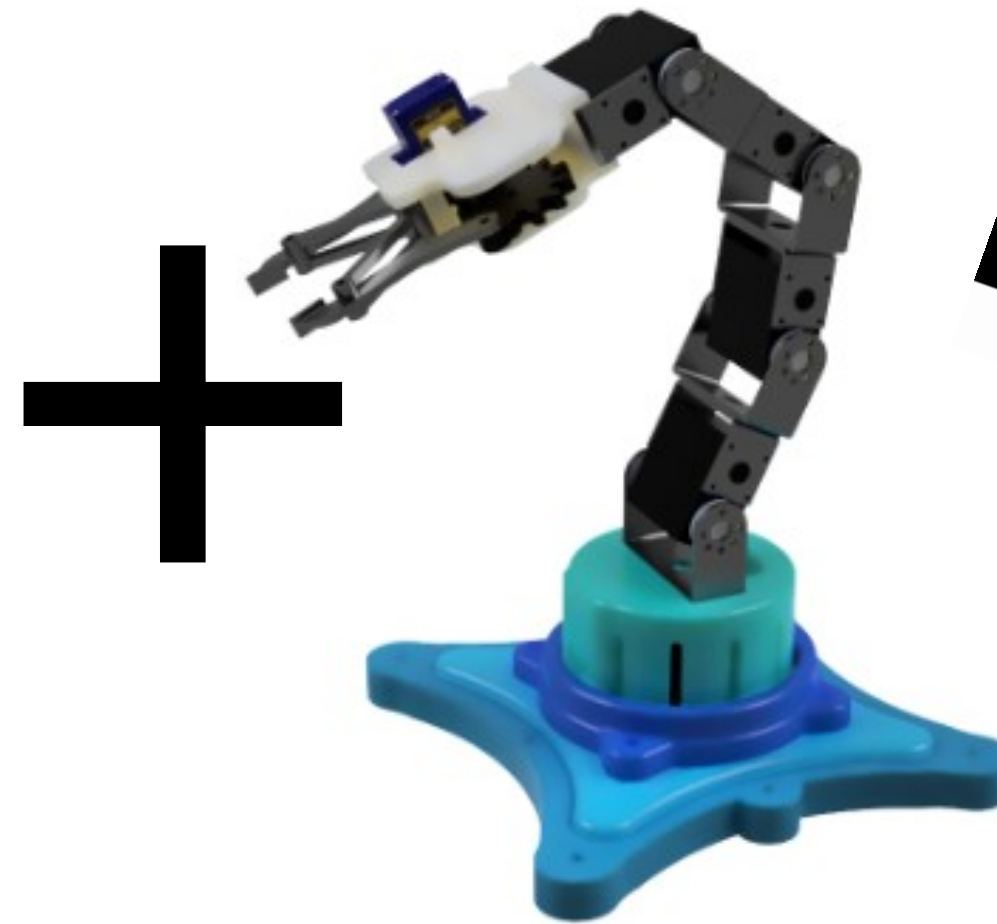
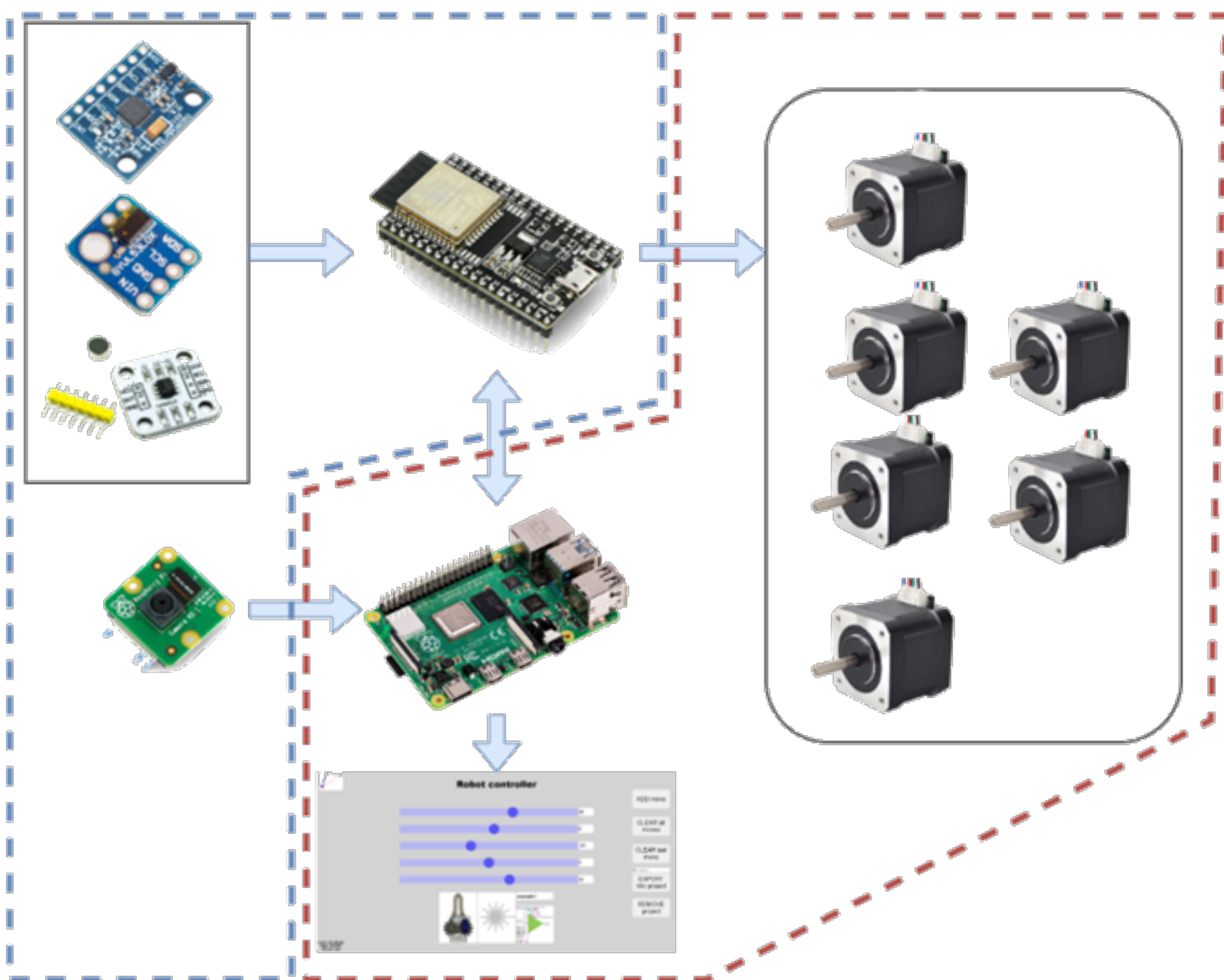
Robotic arm with RC components

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Make own robotic arm that improves problems from my bachelor work and add sensors to allow surrounding detection.

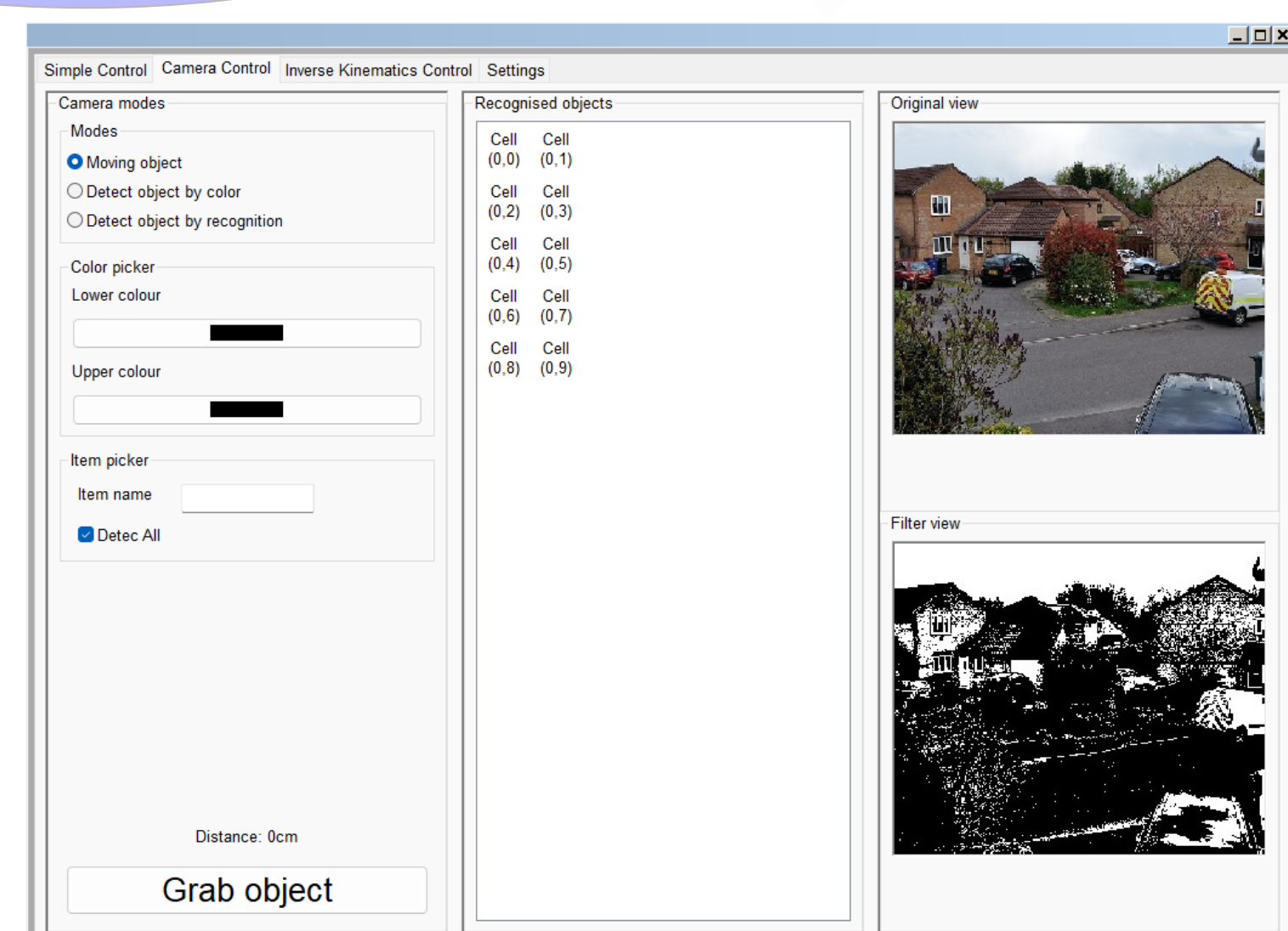
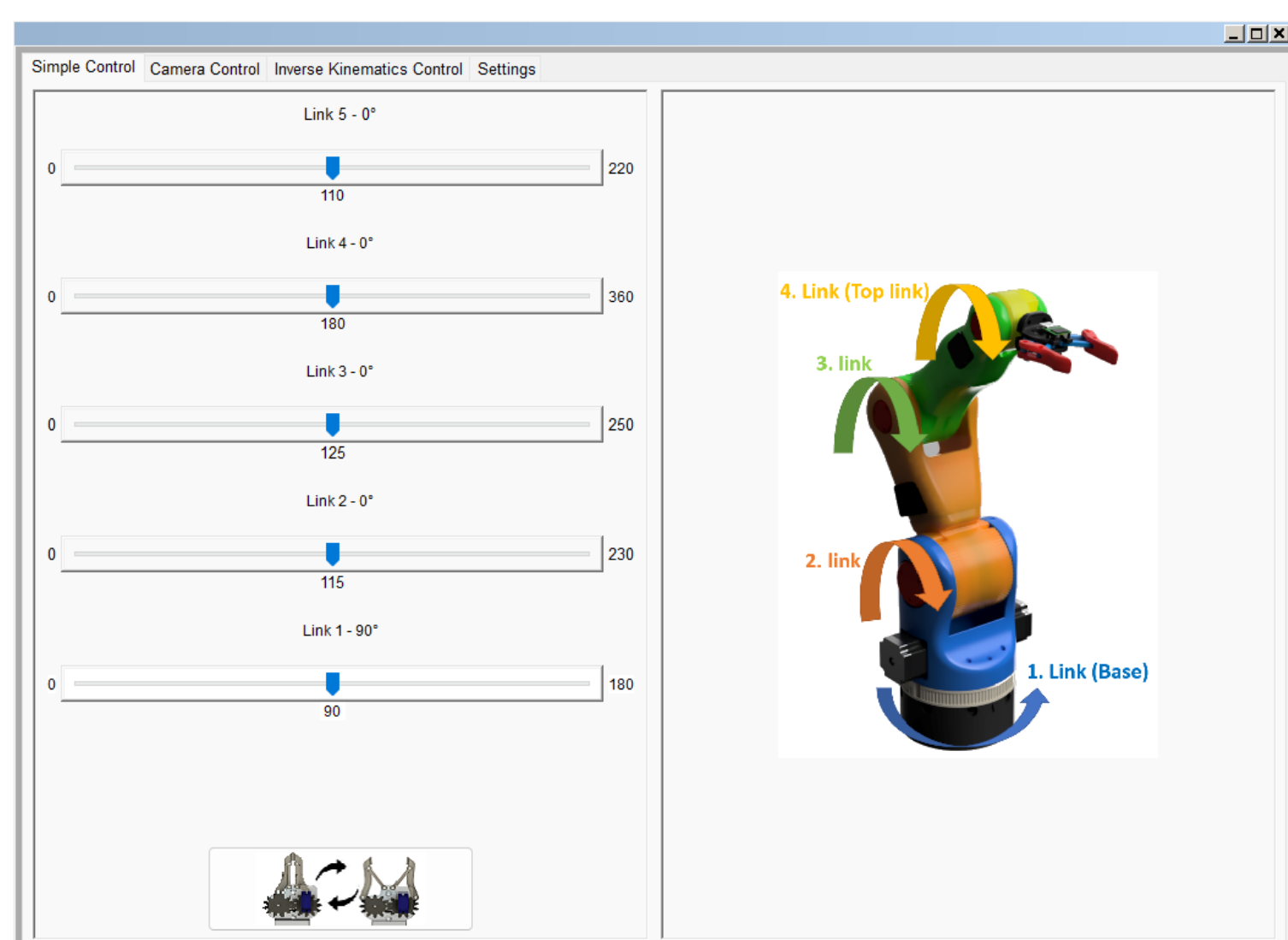
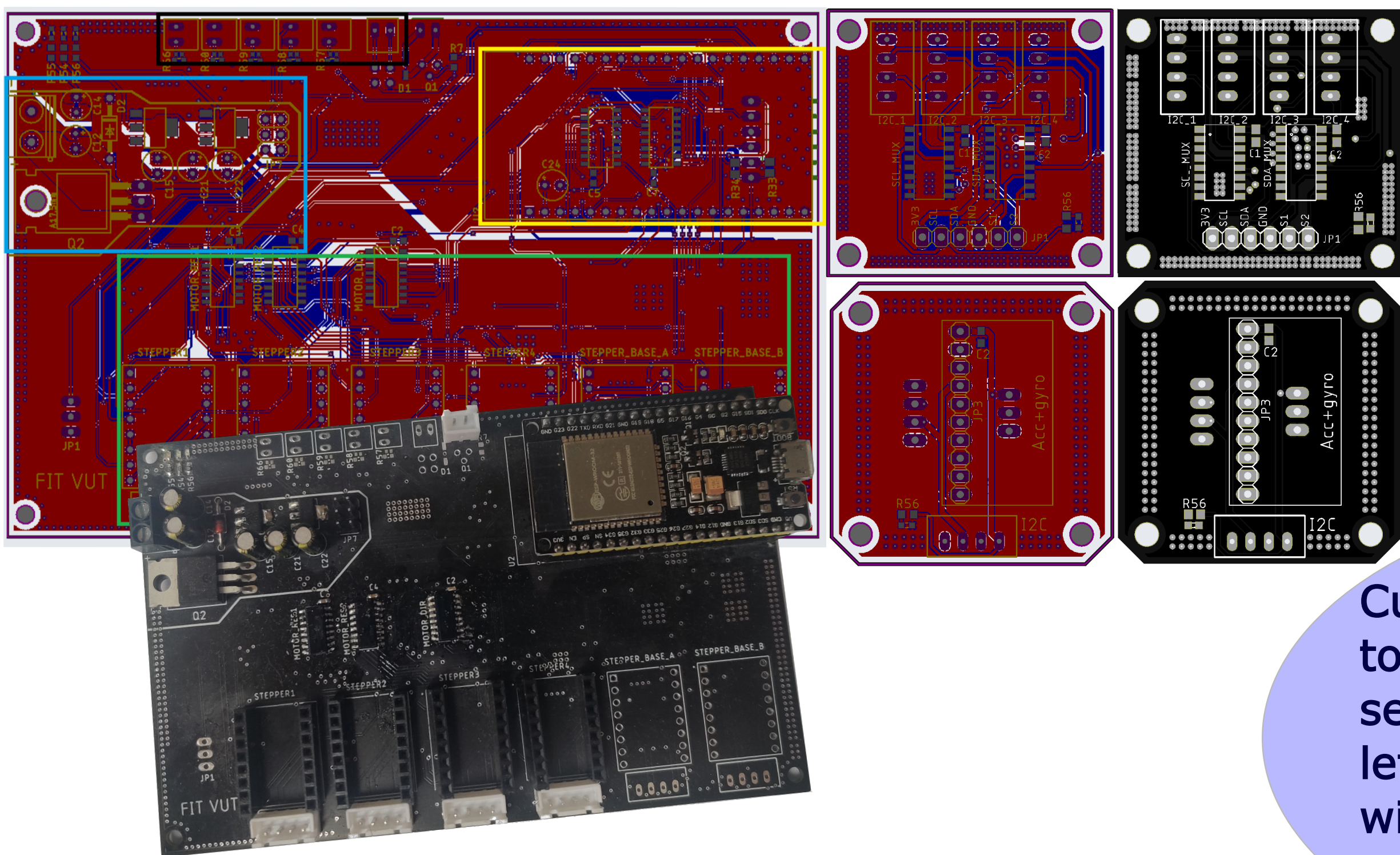
The acquisition of this work is to improve non industrial robotic arm, to reflect what is around it and be autonomous in some way.



Reused existing robotic arm design of MOVEO from BCN3D and redesign it according my needs. 3D printed from PLA.

Designed own sensor board for accelerometer and encoder - this is used for all stepper motors.

Custom Graphical User Interface to control the robotic arm separately motor by motor (the left image) or all motors together with inverse kynematics and camera view.(image on the right)



Acquisition: Robotic arm with inverse kinematics, intuitive graphical user interface, camera, AI object detection and gripper current measuring.