# Kuka-Duplo-Assembler

Ein Bild, das Bauklotz, Spielzeug, Im Haus enthält.

Automatisch generierte Beschreibung

## Idea

A set of Duplo blocks should be assembled by the KUKA Robot, the blocks will be placed on a fixed surface area which is position at a fixed point. The main goal is to assemble a predefined simple construct (probably House).

The house does include a colour scheme which should be taken into account. In the start the blocks can be placed randomly and the robot has to assemble the house on ist own.

Implementation:

There are two main components included in this project, first the robot has to find the right blocks with the use of the integraded camera and sort them in a predefined pattern/grid. Second the robot has to assemble the construct based of the presorted blocks.

Prerequits:

The are the robot works on is clear (no obstacles)

All Stones to assemble the Construct are given

(optional) if the robot does not find all blocks correctly it does not start building the construct.