# PROGRAMMING FOR ROBOTS AND MANIPULATORS (VRM)

Faculty of Mechanical Engineering, Brno University of Technology
Institute of Automation and Computer Science
Technicka 2896/2, Brno 616 69, Czech Republic
Roman.Parak@vutbr.cz

## Project no. 2 (Team project)

Title:

The title of the project will correspond to the chosen topic and will be supplemented by the name of the team (e.g., Intelligent Sorting Machine - IACS Beasts).

Detailed description:

The team project focuses mainly on the topic of robotic control using software such as Unity3D, ROS, Robot-Studio ABB, B&R Automation Studio, and others. The team with a maximum of 3 to 4 members will create the appropriate robotic application and present the project in the last week of the semester. A more detailed description of individual projects will be discussed with the lecturer.

**Note:** It will be possible to create your own project theme, but in accordance with certain principles!

Language:

Comments: Czech, Slovak, English (recommended)
Variables, functions, and other: English

Form:

Specified files for the selected project.
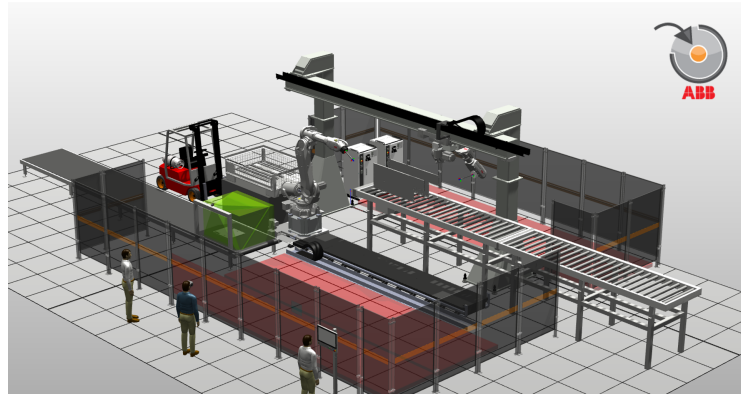
Location:
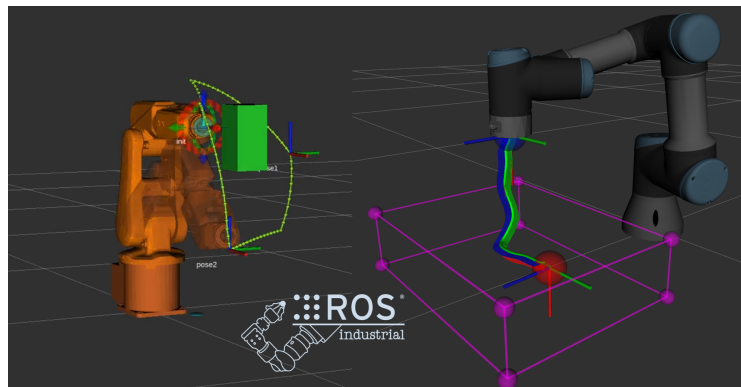
GitHub

Important Dates:

Assignment, Deadline: Discussed with the lecturer.
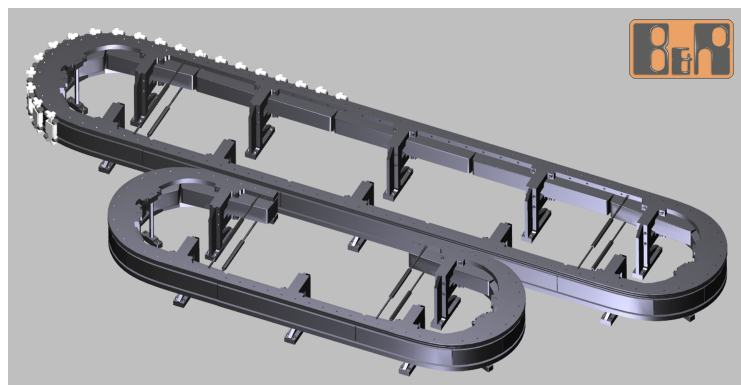
Maximum Score:

40 points

(a) RobotStudio ABB - Production line


(b) Robot Operating System (ROS)


(c) B&R Automation Studio, Scene Viewer, Mapp View


(d) Unity3D and/or Vuforia - Digital-Twin

Figure 1: Project no. 2