

Robot Practical Course

Assignment #1

This assignment is supposed to familiarize yourself with the TAMS Robot Simulator (TARSim). After the presentation, you may start with the task.

Task 1.1 Get TARSim: Either copy the files from one of the USB sticks or check out the public git. For Linux, open a shell and type:

```
git clone http://redmine.mafiasi.de/tarsim/tarsim-public.git
```

You may have to set the main program file to executable. Do so by right-clicking on the file and setting the executable permission.

Task 1.2 Run the program: Run the executable file for your operating system. Fullscreen is recommended.

1.2.1: Load the two DOF manipulator arm from

```
../../urdf/2dofplanar.urdf
```

1.2.2: Attach the IK solver to the TCP

```
<var> = Actor.GetLink(<linkname>).AddIKSolver();
```

Task 1.3 Write your first program: Write a program which will make the robot perform a circular motion inside one single quadrant.