

# Homework 1

## Advanced robotics & Robotics Systems

Robot – Tripteron <https://www.youtube.com/watch?v=beuY401hfh8>

### Tasks:

1. Develop VJM model of the robot with flexible links and joints
2. Develop MSA model of the robot with flexible links and joints
3. Implement linear VJM and MSA model in Matlab or Python [1]
4. Create deflection maps for 100N force in X, Y, Z directions
5. Compare VJM and MSA results

Assumption of link and joint parameters up to you, but you should include it into the report.

### Requirements:

1. VJM model scheme
2. MSA model
3. Code/function explanation
4. Report:
  - VJM model
  - MSA model
  - Deflection map
  - Analysis of obtained results
  - Link to your project on github.com

If you want to create a private repository TA account: [MOstanin](#)

Submit only report to moodle.

[1] Cheat penalty: 0 for Homework 1.