

ENPM662 - 2022

Introduction to Robot Modeling

Project-02: Pre-Proposal

Due: 20th October 2022

Points/Weightage: 1 point

In Project 02, you shall build upon the CAD modeling and ROS simulation skills gained in Project-01 to model and simulate a robot (should **not** be a parallel robot and must have a **minimum** of 5 degrees of freedom) with an appropriate application defined, sensors, joints, etc. More details shall be requested at the proposal stage. Look into various kinds of robots such as legged robots, manipulators, wheeled robots + manipulators, etc!

The pre-proposal is for the teaching staff to gain an idea of your chosen robot, suggest changes and help you finalize teammates. The following are the tasks to be done by the due date:

1. Finalize your teammate(s) (group of 2) and fill this [Google Doc](#) if you haven't already.
2. Write a **1-2 paragraph** description of the modeling/simulation project you plan to execute over the course of the semester. Include a picture of the robot that will serve as the basis of your project. Note that the emphasis of the project should be on modeling and/or simulation, not controls (this is not a controls course) or hardware.

Submit the above description in a PDF (**not more than 1 page**) including the information of the team members.

Name the file: **<directoryID#1>_<directoryID#2>_preproposal.pdf**. One submission per team is sufficient and counts for all members.