MECH541 Kinematic Synthesis

Project # 1

Assigned: September 1st, 2005 Due: October 4, 2005

Synthesis of Parallel Robots for 2D and 3D Translation Tasks

The purpose of this project is to produce as many alternatives as possible of parallel robots with a moving plate capable of undergoing pure translations in 2D and 3D.

The various alternatives should be illustrated with—preferably CAD—sketches, including a narrative description of the rationale behind your concept.