Ecole Centrale de Nantes EMARO - ARIA Design Robotics Project - Design of a parallel robot

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The aim of the lab is to design a parallel robot on CATIA after studying the type synthesis of parallel mechanisms that fulfilled the exposed problem. The developed model on CATIA with the simulation will be given with this report.

1 3D parallel printer

1.1 Presentation

Presentation

1.2 Constraints

Constraints

- 2 Type synthesis of the parallel mechanism : 3-DOF single loop KCs with $\xi_{\infty}-system$
- 2.1 Determine the number of joints
- 3 CATIA

Α

4 Simulation and Results

Dynamic and check workspace