

### Mechanical Design Methods

First Assignment Report (Group 8)

**Students** 

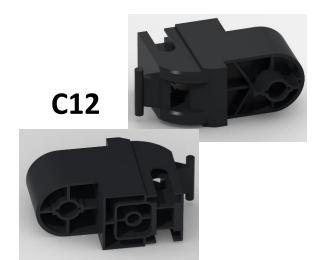
Lorenzo Baccelliere S2621588 Mattia Piras S4524072

# 1/4 Part modeling

- Part measures detection
- Mechanical interfaces recognition (instruction manual reference)
- Modeling paradigms:
  - Lowest possible number of feature
  - Easy accessibility to measures related to mechanical interfaces
  - Model refinement to replicate real part fabrication



**C14** 





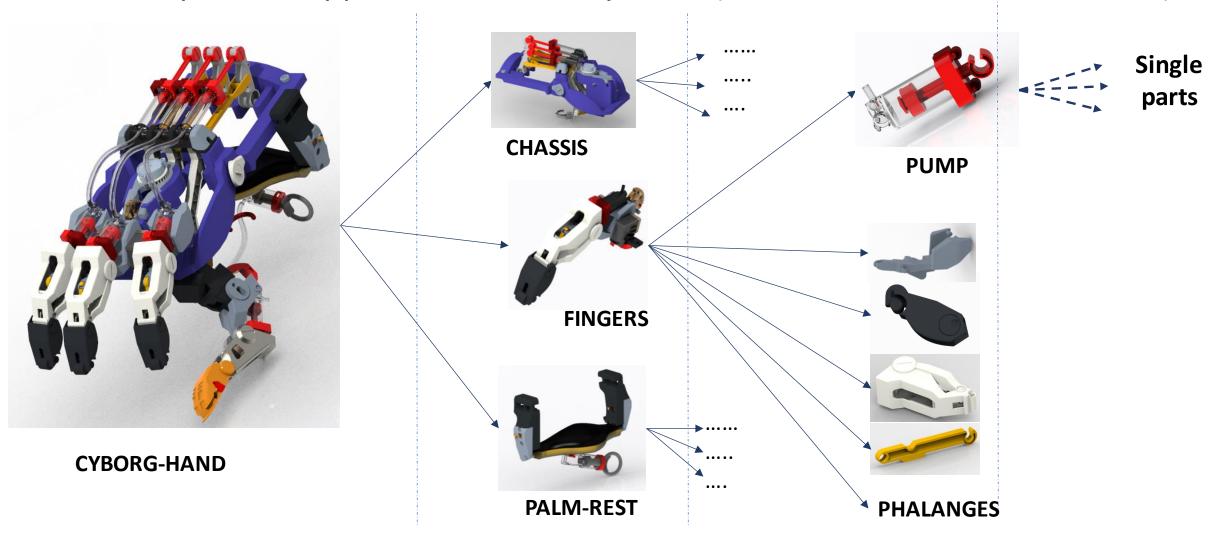




**B2** 

### 2/4 HAND Assembly Map

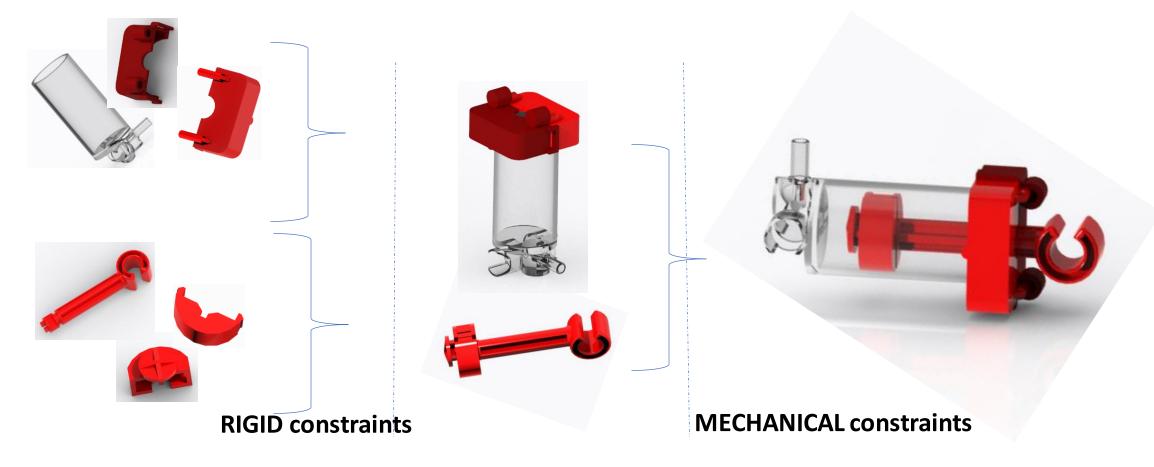
1. Top-down Approach: Assembly MAP (instruction manual reference)



## 3/4 HAND Assembly building

Bottom -UP Approach : sub-assemblies' construction

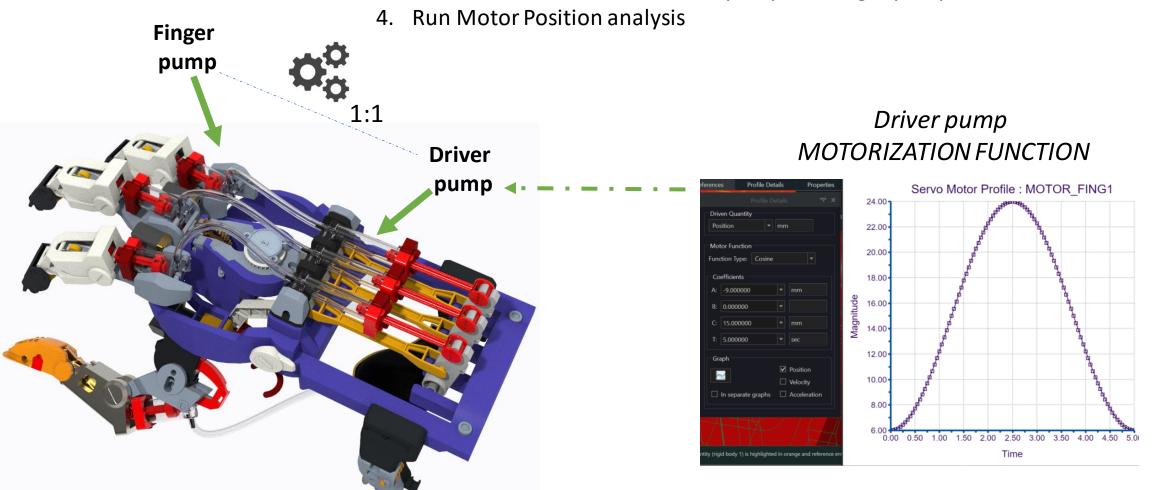
- Assembly of parts/sub-assemblies
- Definition of the constraints between parts/sub-assemblies



#### 4/4 Mechanisms



- 2. Set finger driver Pump (mounted on chassis) with same stroke
- 3. Gear connection between drive pump and finger pump



# Thank you for your attention



