Name:

Worksheet: L13 – Configuration Space

CSCI-534: Robot Planning & Manipulation

Spring 2020

http://www.neil.dantam.name/rpm/B13-cspace.pdf

- 1. Scissor Jack Mechanism: Identify in scissor jack model in Figure 1:
 - (a) The links (N)
 - (b) The joints and constraints (c_i)
 - (c) The degrees-of-freedom satisfying Grübler's formula
- 2. Human Arm: Consider a kinematic model of your own arm (simplify your hand to a single link):(a) Sketch the joints and links:

(b) How many degrees-of-freedom does your arm have?

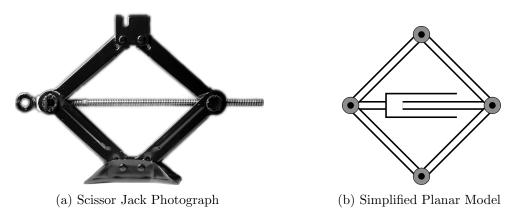


Figure 1: Scissor Jack Mechanism

