

# Sample Beamer Slide

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# Outline

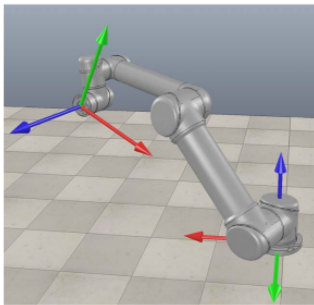
First Section

Second Section

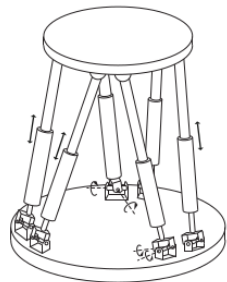
# Example

This is a simple Beamer slide for testing 'pdflatex'.

- ▶ Robot mechanisms can be arranged in a serial fashion like the open-chain arm in Figure 1.1
- ▶ Or forming closed loops, such as the Stewart-Gough platform.
- ▶ Open-chain, all the joints are actuated.
- ▶ Closed loops, only a subset of the joints may be actuated.



(a) An open-chain industrial manipulator, visualized in V-REP [154].



(b) Stewart-Gough platform. Closed loops are formed from the base platform, through the legs, through the top platform, and through the legs back to the base platform.

**Figure 1.1:** Open-chain and closed-chain robot mechanisms.

# Questions?

Next:

- ▶ 02 - Ch2 Intro, 2.1, 2.2