# Stack: cpr\_robots\_driver Jan 21<sup>st</sup>, 2013

Pkg: cpr robots teleop

Nodes: CPRTeleopKeyboard

Pkg: cpr robots hwinterface Nodes: CPRKinSlider Up till now only the Slider node is available Virtual Com Port at CPRCommRS232 115.200 kbit/s writes/reads messages to the hardware **CPR** USB2CAN Bridge CPRKinMover4 CAN-Bus at accepts JointState or Pose (in 500 kbit/s preparation) messages and forwards the necessary CAN messages

### **CPRTeleopKeyboard** reads the keyboard

## CPRCtrlLoop

10 Hz loop Gets commands from Keyboard and publishes the messages

> sensor msgs::JointState: Name: jointStatesMover4 A1 to A4 [rad]

Name: poseMover4 [m and Ouaternions]

geometry msgs::Pose: Position and Orientation

nav msgs::Pose:: Name: poseSlider Position in x, y [m] and phi [rad]

geometry msgs::Twist:\

Velocities in x, y [m/s]

Name: twistSlider

and phi [rad/s]

## **CPRKinSlider**

accepts Twist messages and forwards the necessary CAN messages

**CPR Robot Hardware** (Mover4, Slider or both)