ClamArm

The ClamArm is a low-cost 7 degree of freedom arm manipulator with corresponding software built in the Correll Lab at the University of Colorado Boulder. Its name is a fun acronym for “Cheap Little Arm Manipulator”. The ClamArm is an open source software and hardware project that uses the Robotics Operating System (ROS), the MoveIt! planning framework and the Open Motion Planning Library (via MoveIt!). This project is used as both a teaching and research platform, and collaboration with others is encouraged. Instructions for building the arm and tutorials for using the software can be found on this website.

Key Features:

- Low cost bill of materials – less than $2k USD
- Uses standard ROS interfaces and controls including MoveIt!
- Approximately 50 cm length from base joint to end-effector
- Uses the popular dynamixel servos with position feedback and torque control

The ClamArm is powered by MoveIt!

ClamArm Architecture Presentation