

## Motion Control Module

The Motion Control Module (MCM) is the C++ based low level motor controller of myP. In addition to the control algorithms it includes all the safety features. If fast and direct access to the motors is required by an application, myP can be disabled, which allows for direct control of the MCM.

### Features

- Calibration (using mechanical stops or light barriers, if available)
- Position control loop up to 100Hz providing smooth movement
- Release mode allowing positioning the robot by hand with friction and gravity compensation
- Sophisticated safety checks in all modes
- Well tested (coverage estimated at 95% of the code base)
- TCP JSON-based M2M interface

### Options

- TCP text-based HMI interface
- C++ API
- Python API
- ZMQ interface