Prosthesis v1 Application Notes

Table of Contents

[1. General Notes 2](#_Toc186177096)

[1.1 Wiring 2](#_Toc186177097)

[1.2 Software Usage 2](#_Toc186177098)

[2. Flow of Code 3](#_Toc186177099)

[3. CubeMonitor Description 4](#_Toc186177100)

[4. Test Programs 5](#_Toc186177101)

[5. Future Improvements 6](#_Toc186177102)

1. General Notes

1. Variables with suffix CM\_ are used in CubeMonitor.
2. Coordinates are x = forward, y = up, z = right. CM\_ variables follow the right-hand rule.
3. Knee and ankle angle figure.

# 1.1 Wiring

XXX

# 1.2 Software Usage

1. STM32CubeIDE ()
2. STM32CubeMonitor ()

2. Flow of Code

XXX

3. CubeMonitor Description

XXX

4. Test Programs

XXX

5. Future Improvements

1. IMU sensitivities can probably be better than 8g and 1000 dps. They were adopted from previous firmware.
2. Nominal current for motor is most likely not accurate. This was adopted from previous firmware. Should probably ask a forum to help out.