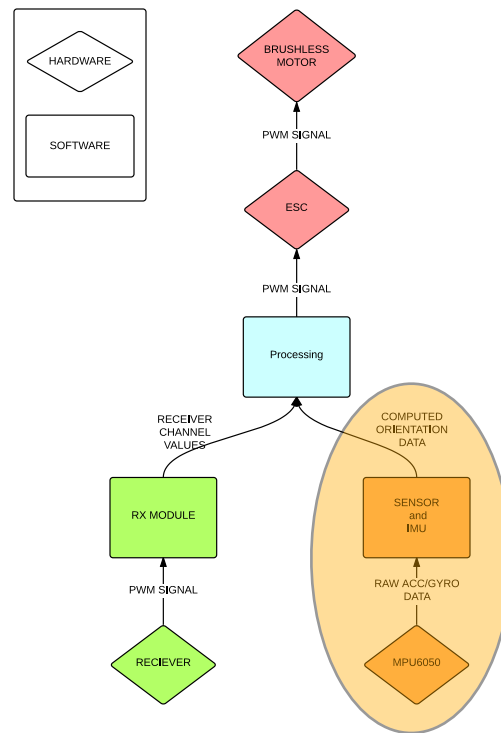


SENSOR AND IMU MODULE



Goals

- Develop software for an Arduino that is able read raw data from the mpu6050 and determine the sensors orientation as accurately and quickly as possible.

Requirements

- Code needs to be as efficient as possible (no delay functions) The sampling rate should be at least 100Hz

- Orientation data should be free from gyro drift this should be accomplished using a complimentary filter .

Resources

- Work with the multiwii Sensor.cpp and IMU.cpp file and adapt it for our purposes.
- Google is your best friend for this project, use it!
- <http://www.pieter-jan.com/node/11>