

#### 4.4.3.4 Accelerometer Driver

This driver provides interfaces to read the measured values of the ADXL345 accelerometer. For this the I2C driver is required to read or write into the registers of the sensor.

Two files for the driver exist, the source file `accelerometerdriver.c` and the header file `accelerometerdriver.h`. The code is written on the basis of an old project.

For the initialization the driver sets up the I2C driver and starts the measurement mode of the accelerometer. No other initializations are made, maybe some better power control could be realized to save some energy.

In addition to this three methods to get the measured values are provided. They simply read the corresponding registers over I2C. For every axis two registers provide the value, so they have to be connected and then can be returned.

For the test documentation take a look in tests.