

esw-digital-sensor software architecture

app_main.c

'hb_loop' thread

- periodically print heartbeat

'mma_data_ready_loop' thread

- init i2c
- init gpio
- configure mma8653fc
- read sensor data

'calc_signal_energy' function

mma8653fc_driver.c

'sensor_reset' function

'set_sensor_active' function

'set_sensor_standby' function

'configure_xyz_data' function

'configure_interrupt' function

'get_xyz_data' function

'read_registry' function

'write_registry' function

'read_multiple_registries' function

'convert_to_count' function

'convert_to_g' function

gpio_handler.c

'gpio_i2c_pin_init' function

'gpio_external_interrupt_init' function

'gpio_external_interrupt_enable' function

'gpio_external_interrupt_disable' function

'GPIO_ODD_IRQHandler' function

i2c_handler.c

'i2c_init' function

'i2c_enable' function

'i2c_disable' function

'i2c_reset' function

'i2c_transaction' function