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gas_sensor.power_mode = BME680_FORCED_MODE;

//configure all the temperature, pressure, humidity and gas settings
set_required_settings = BME680_OST_SEL | BME680_OSP_SEL | BME680_OSH_SEL | BME680_FILTER_SEL |
    BME680_GAS_SENSOR_SEL;
rslt = bme680_set_sensor_settings(set_required_settings, &gas_sensor);
rslt = bme680_set_sensor_mode(&gas_sensor);

bme680_get_profile_dur(&meas_period, &gas_sensor);
struct bme680_field_data data; //create instance of bme680_field_data name 'data'

while (1) {
    user_delay_ms(meas_period); //delay for meas_period ms
    rslt = bme680_get_sensor_data(&data, &gas_sensor); //read sensor measurements and store in data
    init_spi_lcd(); //initialize spi for lcd before transactions

    Last_KeyPress = KeyPress; //set last key press equal to current key press
    KeyPress = REG_PORT_IN0 & 0x04; //mask pushbutton value onto current key press
    if (Last_KeyPress != KeyPress) { //if last and current key value no equal
        if (KeyPress == 0x04) { //and if key is not held down, increment counter
            count++;
        }
    }
    if (count % 2 == 0) { //if count is even display temperature and pressure
        sprintf(dsp_buff_1, "T: %.2f degC", data.temperature / 100.0f);
        sprintf(dsp_buff_2, "P: %.2f hPa ", data.pressure / 100.0f);
        update_lcd_dog();
    }
    else { //if count is odd display humidity and gas resistance
        sprintf(dsp_buff_1, "H: %.2f %%rH", data.humidity / 1000.0f);
        if (data.status & BME680_GASM_VALID_MSK) {
            sprintf(dsp_buff_2, "G: %ld ohms ", data.gas_resistance);
        }
        update_lcd_dog();
    }
    //print values to TeraTerm
    printf("T: %.2f degC, P: %.2f hPa, H: %.2f %%rH", data.temperature / 100.0f, data.pressure / 100.0f,

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