Det Tekniske Fakultet

Lab 1:

Setup your Development Environment. (see note at BB).

Create your first project in CoIDE. (see note at BB).

Type the code from list 1 into your main.c.

Compile the code, connect the kit, download and run.

The on-board LED will now light up when you press the <SELECT> button.



Fig. 1: Stellaris® LM3S6965
Evaluation Board

```
*********************
* MODULENAME.: main.c
#include "lm3s6965.h"
int main(void)
   Function : LED follows SWITCH
 int dummy;
 // Enable the GPIO port that is used for the on-board LED.
 SYSCTL_RCGC2_R = SYSCTL_RCGC2_GPIOF;
 // Do a dummy read to insert a few cycles after enabling the peripheral.
 dummy = SYSCTL RCGC2 R;
 // Set the direction as output (PF0).
 GPIO_PORTF_DIR_R = 0x01;
 // Enable the GPIO pins for digital function (PF0 and PF1).
 GPIO_PORTF_DEN_R = 0x03;
 // Enable internal pull-up (PF1).
 GPIO_PORTF_PUR_R = 0x02;
 // Loop forever.
 while(1)
   if( !(GPIO PORTF DATA R & 0x02 ))
   GPIO PORTF DATA R &= ~(0x01);
   GPIO PORTF DATA R |= 0x01;
 return(0);
           ************ End Of Module ******************/
```

List 1. Main.c

Congratulations, you have made your first program.

Enjoy, Morten