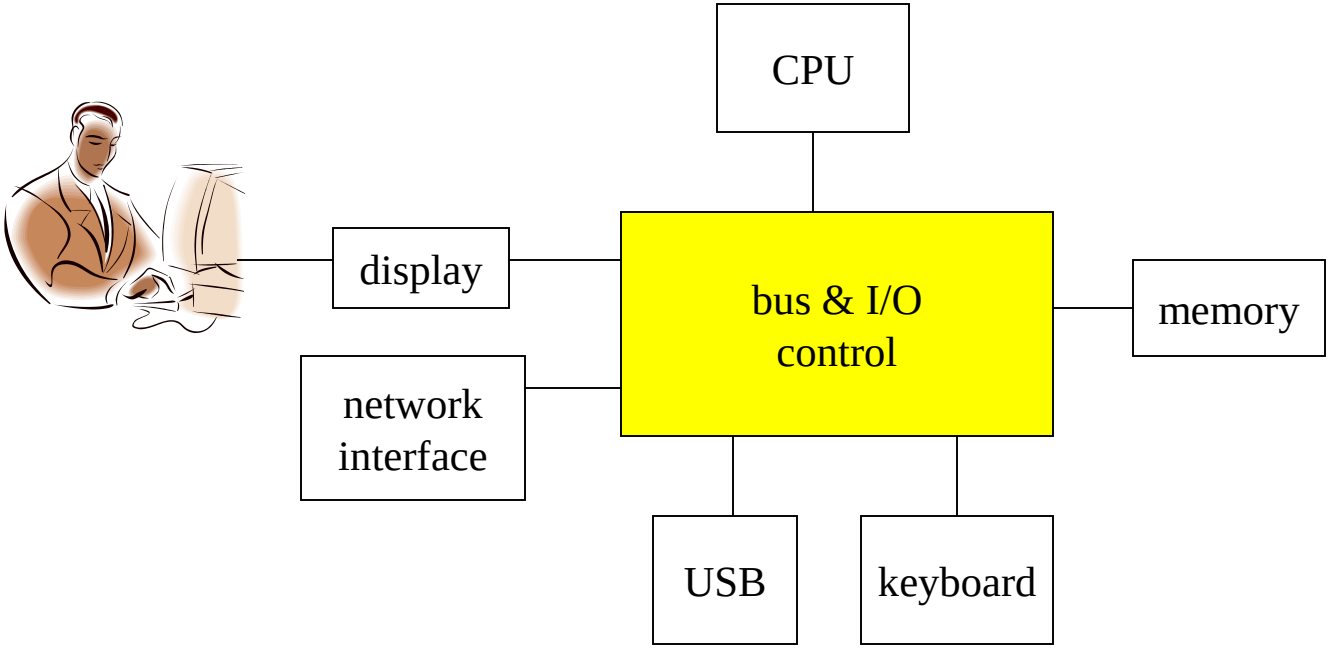
Lab 00

Micro-Processor Lab

the course overview

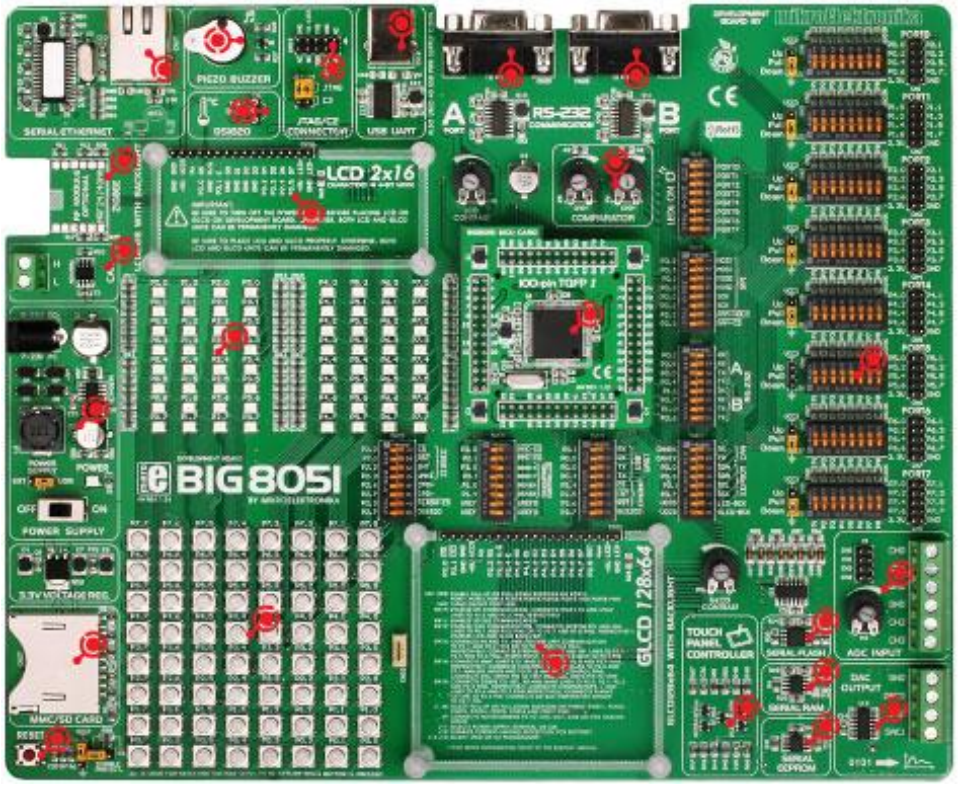
What's this course for

- to learn programming to control I/O devices



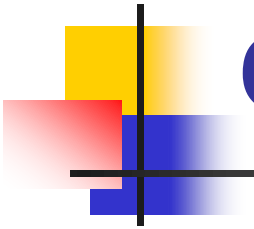
Experiment Platform

- The BIG8051 experiment board



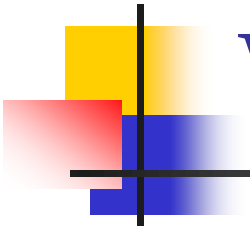
Reference

- Milan Verle, “Architecture and Programming of 8051 Microcontrollers”
  - free on-line book
  - http://www.mikroe.com/en/books/8051book/
- Silicon Lab C8051F04x data-sheet
  - http://www.silabs.com/products/mcu/mixed-signalmcu/Pages/C8051F04x.aspx
- Big8051 schematic
  - http://www.mikroe.com/downloads/get/1461/big8051_schematic_v100.pdf



Grading

- Pre-Lab report: 20%
- Lab reports and demo: 40%
- Mid-term project: 20%
- Final term project: 20%



Where to get course materials

- https://github.com/CGUSystemCourses/MicroProcessorsLab-2015

Pre-Lab Report for Lab00

- Assumptions (the Situation):
  - You graduated from CGU and becomes an engineer at Foxcon
  - You are given two terrible data-sheets of the experiment equipment's
    - http://www.silabs.com/products/mcu/mixed-signalmcu/Pages/C8051F04x.aspx
    - http://www.mikroe.com/downloads/get/1461/big8051_schematic_v100.pdf
  - You have only 24 hours left to write an LED-blinking demo program on the experiment board
  - No any assistant data available from Google
  - No one will teach you how to program the experiment board
- Question: how will you read the terrible data-sheets to complete your project in 24 hours?

How to upload reports

- Wait announce from the TA
- No delay allowed for the pre-lab report!