

EMBEDDED COURSE

HARDWARE:

- **AT89S51 (8051)**

- Architecture
- Configuration
- Peripheral Interfacing
 - Internal
 - ✓ Timers / Counters
 - ✓ Serial Communication
 - ✓ Interrupts
 - ✓ Memory (RAM / ROM)
 - External
 - ✓ Keyboard
 - ✓ LCD Display
 - ✓ Motor Relay Circuit

- **PIC**

- Architecture
- Configuration
- Peripheral Interfacing
 - Internal
 - ✓ ADC
 - ✓ Timers / Counters
 - ✓ Serial Communication
 - ✓ Interrupts
 - ✓ Memory (RAM / ROM)
 - External
 - ✓ Keyboard
 - ✓ LCD Display
 - ✓ Motor Relay Circuit

- **Arduino**
 - Architecture
 - Configuration
 - Peripheral Interfacing
 - Internal
 - ✓ ADC
 - ✓ Timers / Counters
 - ✓ Serial Communication
 - ✓ Interrupts
 - ✓ Memory (RAM / ROM)
 - External
 - ✓ Keyboard
 - ✓ LCD Display
 - Motor Relay Circuit

SOFTWARE

- **C**
 - Syntax
 - Conditions
 - Loops
 - Array
 - Pointers
 - Functions
- **Embedded C**
 - Difference between C and Embedded C
 - Interfacing program for AT89S51 (8051)
 - Interfacing Program for PIC16F877A