

# List of projects

Course: Embedded System Design

**Instructor: Truong Quang Vinh**

1. 20-Chasing LEDs (at least 10 modes)
2. LED Message Board (8x32) (financial supported by IC Design Lab)
3. 3D-LED cube (3x3x3)
4. LED fan display
5. Two-LED Dice
6. Two-digit 7-Segment LED counter up/down
7. Digital clock with LCD display
8. Voltmeter with LCD display
9. Calculator with keypad and LCD
10. Serial communication-based calculator
11. Step motor controller
12. DC motor controller using PWM
13. I2C data communication
14. Battery charger (1A)
15. Temperature controller
16. Alarm controller using IR LED
17. Automatic light controller
18. Simple music keyboard
19. Digital door lock
20. SD card project