

Digital Circuit System Hệ thống mạch số

Contents Nội dung

(I. LED Overview and Manufacturing Process) **Tổng quan về LED và quá trình chế tạo**

1. Overview of LED **Tổng quan về LED**
2. LED device manufacturing process **Quá trình chế tạo thiết bị LED**

(II. LED display base) **Căn bản hiển thị LED**


3. Equipment configuration and practice environment **Cấu hình thiết bị và môi trường thực hành**
4. Microcontroller (AVR) **Vi điều khiển (AVR)**
5. LED operation principle and driving circuit **Nguyên lý hoạt động của LED và mạch điều khiển**
6. LED on using MCU **Điều khiển LED sử dụng MCU**
7. Color realization using color LED **Trộn (hiện thực) màu sử dụng LED màu**
8. Leveraging FND **Điều khiển LED 7 đoạn (FND: Flat Numaric Display)**
9. Controlling Dotmatirx **Điều khiển ma trận LED**
10. IR LED communication **Truyền thông sử dụng LED hồng ngoại**
- 11.LED BLU (Back light Unit) **LED nền**

(III. LED utilization) **Ứng dụng LED**

- 12.OLED **Organic LED**
 13. LED lights **Đèn LED**
 14. LED light using sensor **Đèn LED sử dụng cảm biến**
 15. LED scoreboard **Bảng hiển thị LED**
-

Teacher: Giảng viên

Resume

Name	Lim Mee Seup		TEL	010-8949-5132		
소 속	Gyeonggi College of Science and Technology	부 서	Dept. of Mechatronics	직 위	Professor	
전공분야	Robot Engineering	최종학위	Ph. D	E-mail	mSlim@gtec.ac.kr	
학력 (대학 이상)	졸업년도	학교명			전공	
	1986	Korea Aerospace University			Electronics Eng.	
	1989	Korea Aerospace University (Master)			Robot Eng.	
	2001	Hanyang University (Ph.D.)			Robot Eng.	
주요경력	근무처	부서	직위	근무기간		
	KIST	제어시스템연구부	선임연구원	1991.1.1. -2001.3.30		
	GTEC	Dept. of Mechatronics	Professor	2001.4.-Now		

Dept. of **Mechatronics**



The Department of Mechatronics covers state-of-the-art subjects to integrate computer technology into electronics and mechanics, providing students with design technology using controller, assembly, C. Visual C+. In addition, it aims for atrining professionals who need in the field of program and technology development in the 21st century.

▶ **MAJOR INDUSTRIES OF EMPLOYMENT**

LG display, Samsung Electronics, Ajoo Hi-tech, Yulchun Precision, Brother industry, BD Korea, New Control Tech, TPI, Plus Industry, TMC System

▶ **CAREER PATH**

Development and application Micro computer H/Wand S/W, Design of Mechatronic Interface Circuit, Control and development of Mechanism, CAD/CAM, Electric device and Application of power, Operation of Automotive system and controller, PLC Control Application, Air and Oil device design

▶ **MAJOR SUBJECTS**

Introduction to Mechatronics, Microprocessor Application Experiment, Mechanics of Materials, C Programming Experiment, Power Electronics, PLC Control Experiment, CAD/CAM, Manufacturing Processes, Sensor and PC Interface, Robotics

▶ **RELATED CERTIFICATES**

Mechatronics engineer, Calculating engineer, Electronics engineer, Industrial Measurement engineer