

# ECGR 4101/5101 - Lecture 1

(1)

## Chapter 1 general Embedded

What is an embedded system

10 - embedded systems

mobile phone

projector

MP3 player

calculator

u wave

camera

monitor

scopes

Dig watch

car

CAN bus → Communications  
in an auto mobile

Security

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Why embedded?

Reduce cost

More functionality

# ECGR 4101/SIDI - Lecture 2

To make an embedded System

(2)

Engineer → Computer  
Electrical  
Mechanical  
Systems  
Manufacturing

Requirements → what we will make  
when we are done

Design - Specification  
High Level  
Low Level  
Implementation  
Test  
Delivery / Manufacturing

Fast	→ microcontroller	→ Program	\$5- 3mo
		→ PCB	
Slow	→ Integrated Circuit	PCB	\$2- 7mo
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