Mastering Embedded System

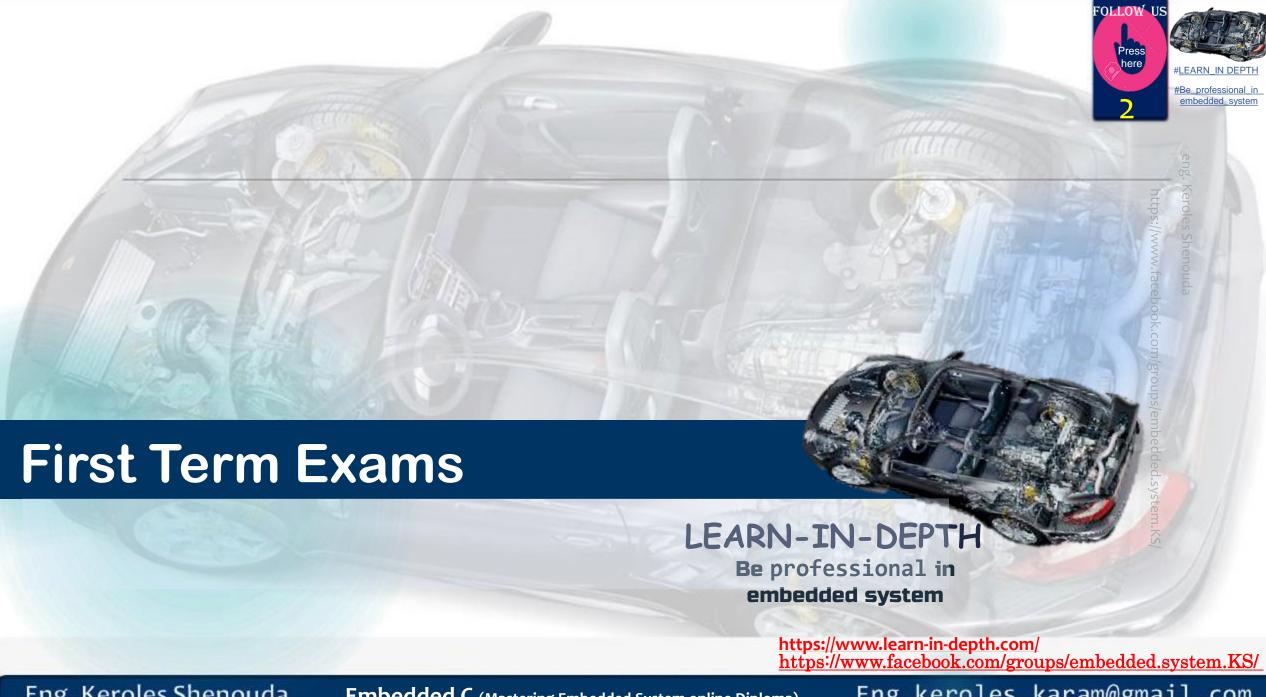
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Final Exam & Project

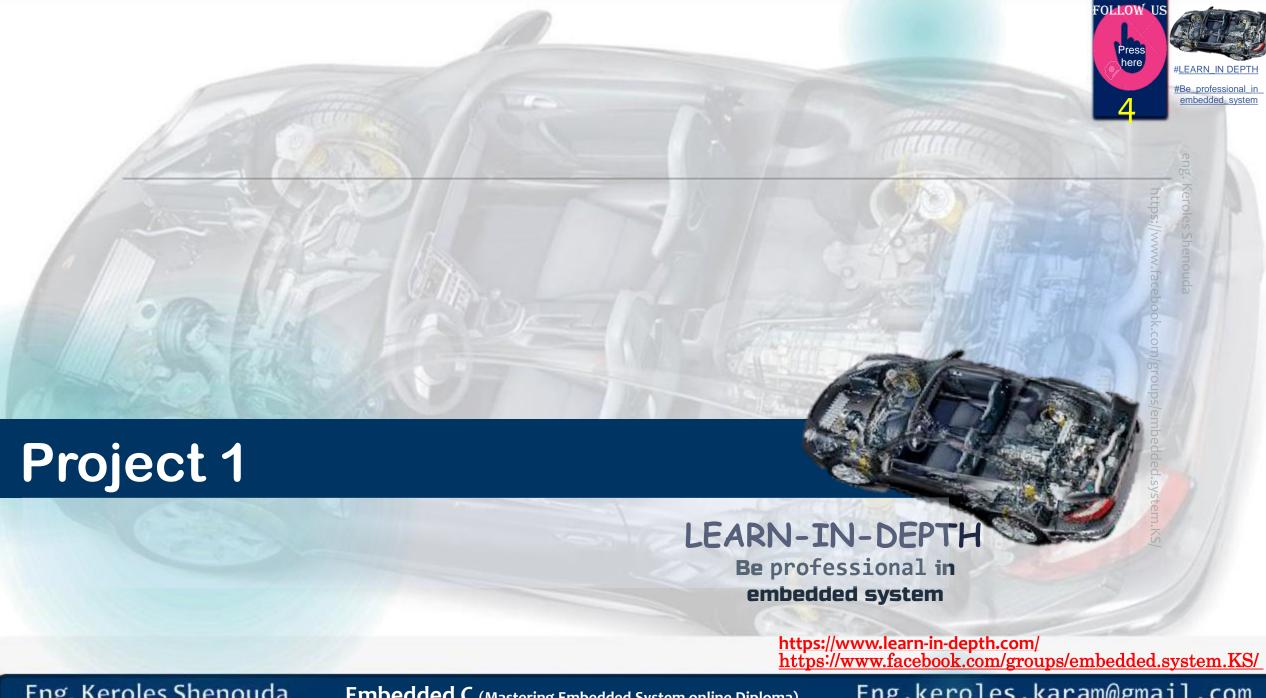






You must enter those exams

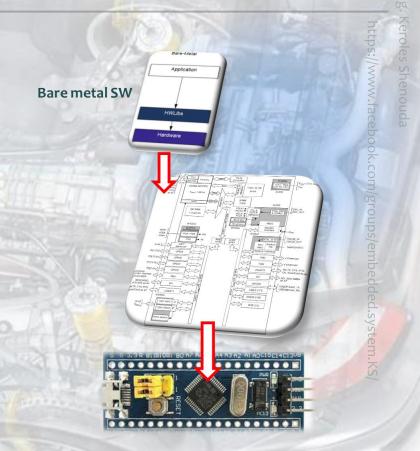
- ▶ Part 1 (each exam have a 30 MCQ)
- ▶ Part2 (each exam have a 30 MCQ)
- Part 3 (each exam have a 30 MCQ)





Pressure Controller

- ► A "client" expects you to deliver the software of the following system:
- ► Specification (from the client)
 - A pressure controller informs the crew of a cabin with an alarm when the pressure exceeds 20 bars in the cabin
 - The alarm duration equals 60 seconds.





▶ This report should have:

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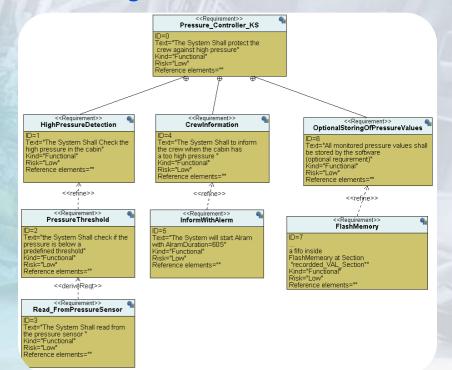
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Cover page



- ▶ This report should have:
 - requirements Diagram



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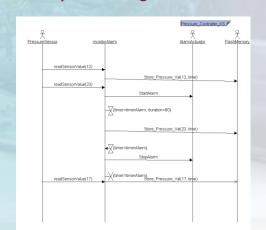
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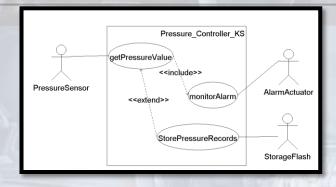
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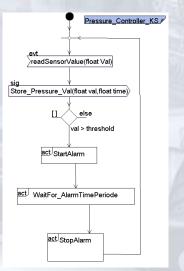
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- ▶ This report should have:
 - requirements Diagram
 - System Analysis
 - 1. Use Case Diagram
 - 2. Activity Diagram
 - 3. Sequence Diagram







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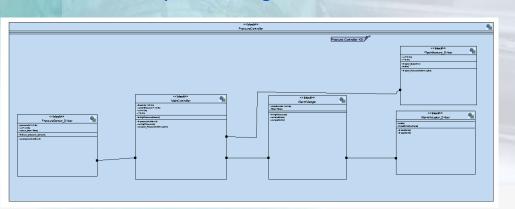
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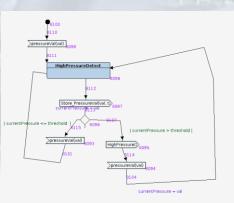


Word or Pdf or PowerPoint



- requirements Diagram
- ► System Analysis
 - 1. Use Case Diagram
 - 2. Activity Diagram
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- System Design (Modules with its own state machines)





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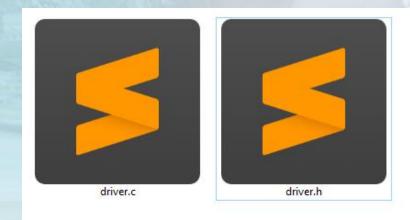


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 - 1. Use Case Diagram
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 - System Design (Modules with its own state machines)
 - ▶ You have to write Embedded C Codes consists of Modules
 - .c & .c for each module
 - MakeFile
 - ▶ Startup.c
 - ▶ Linker.ld





- ▶ In the driver.c file we provide the following APIS
 - void Delay(int nCount);
 - ▶ int getPressureVal();
 - void Set_Alarm_actuator(int i);
 - ▶ void GPIO_INITIALIZATION ();

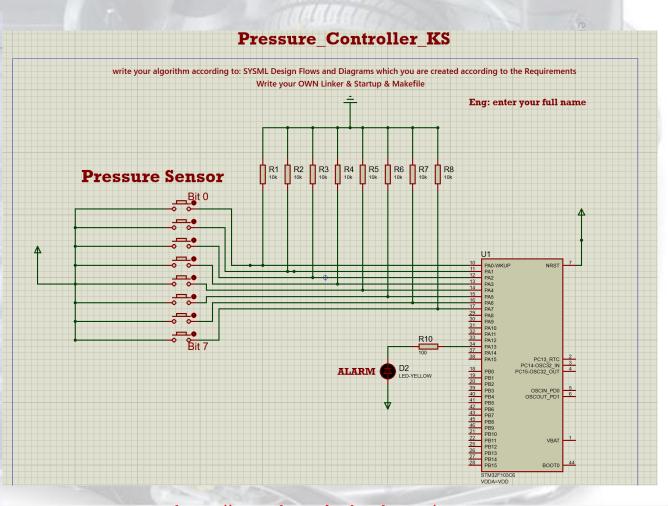


```
1 #include <stdint.h>
2 #include <stdio.h>
3
4 #include "driver/driver.h"
5
6 int main (){
7    GPIO_INITIALIZATION();
8    while (1)
9    {
10         //Implement your Design |
11     }
12
13 }
```

main.c

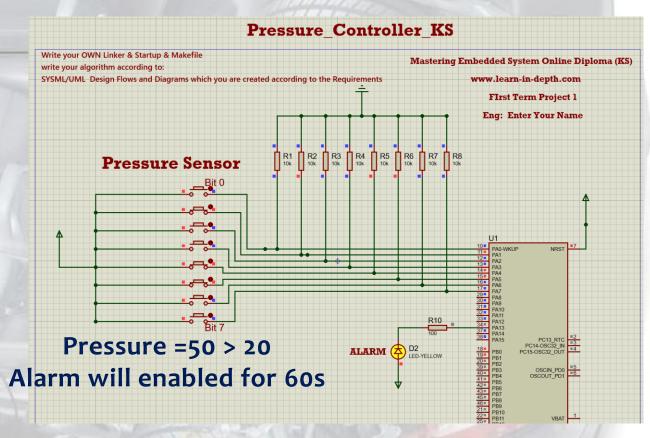


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- Put an Image for each file. C & file. h with the Corresponding state machine
- Put the Simulation results with description





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- Generate SW analysis .map file & symbols table & Section taples

