



## **Project 1**

**Pressure Controlling system.**

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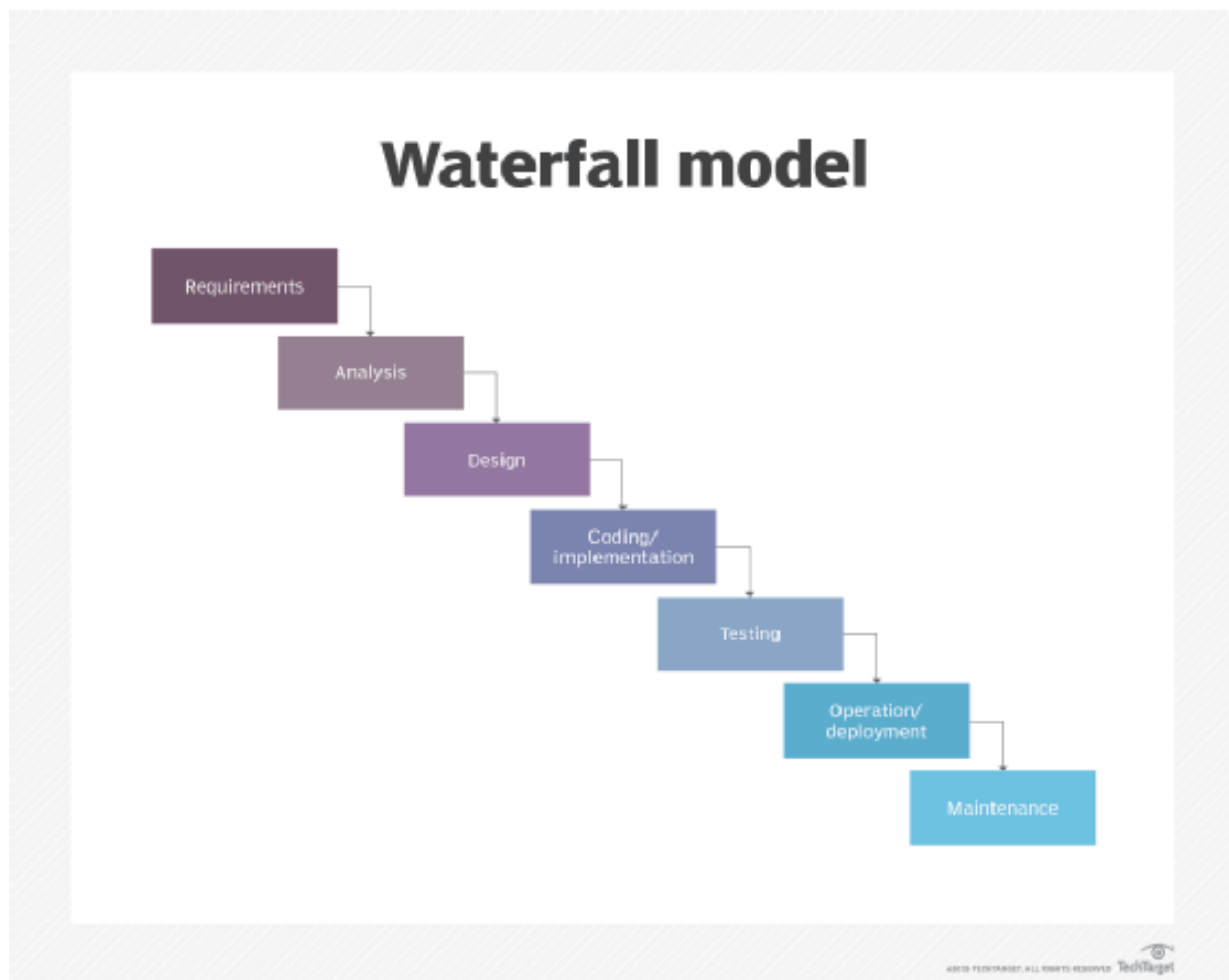
**B e P r o f e s s i o n a l I n E m b e d d e d S y s t e m  
E n g . K e r o l e s S h e n o u d a**

## I. Project Overview

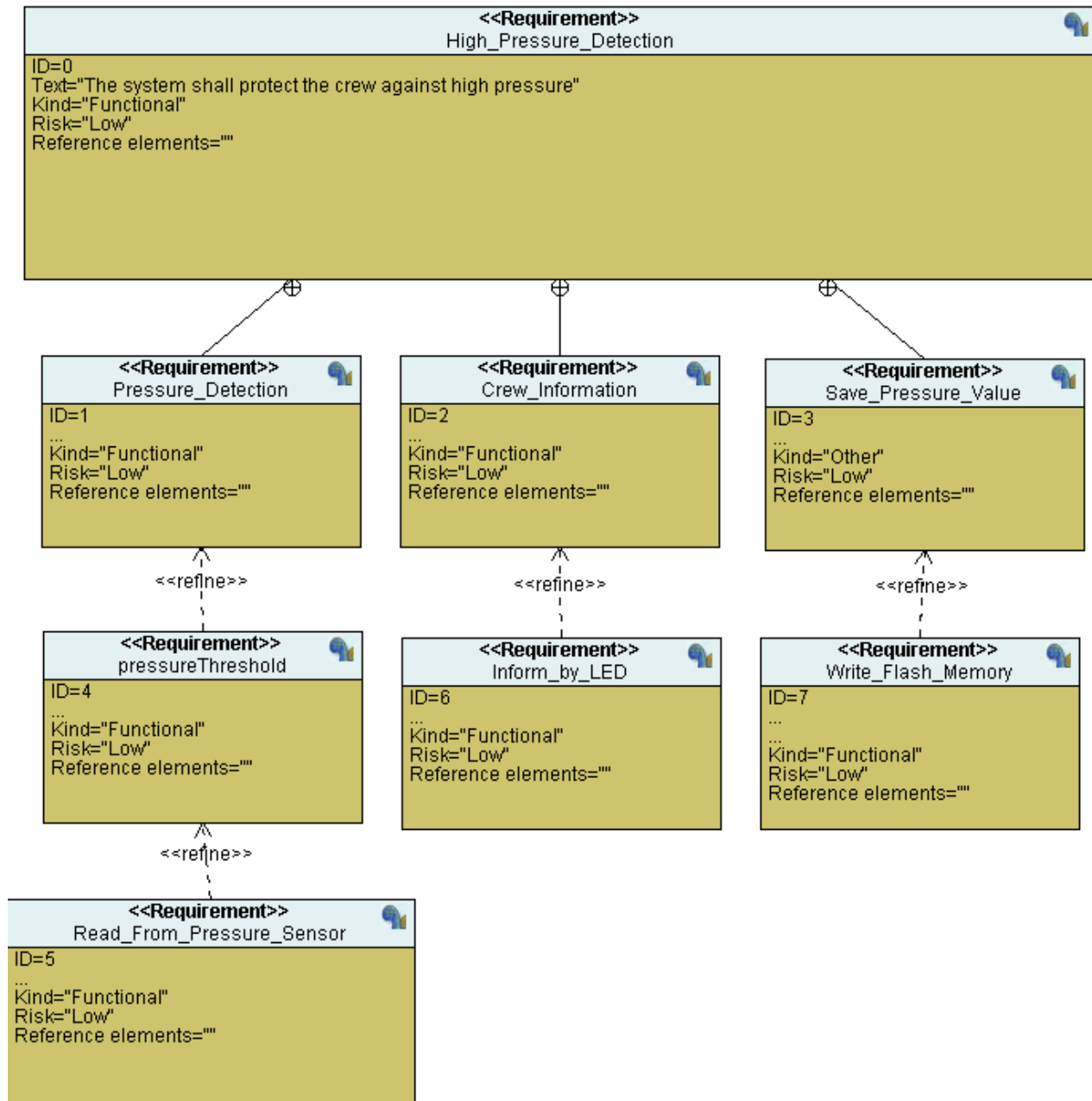
- We are required to deliver a **pressure controller** that informs the crew of a cabin with an alarm when the pressure exceeds 20 bars in the cabin.
- The alarm duration equals 60 seconds.

## II. Method

- In this project I choose **waterfall model** due to its simplicity

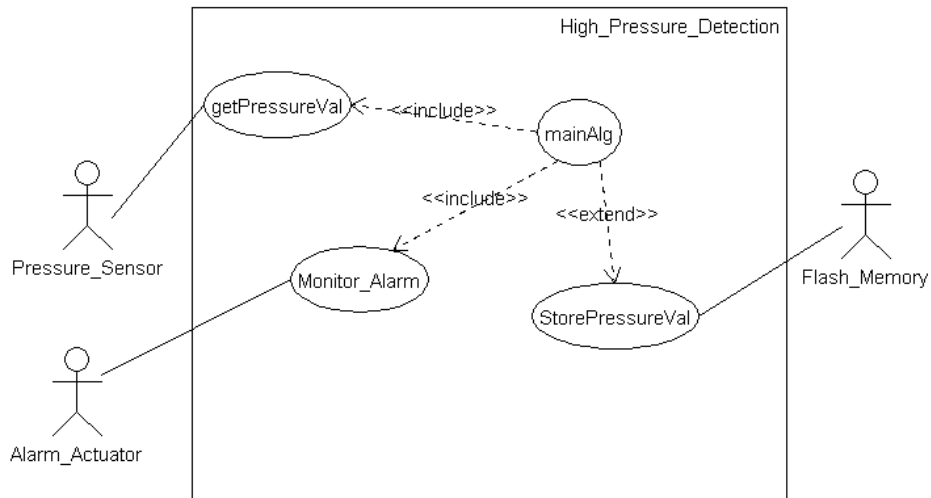


### III. Requirement Diagram

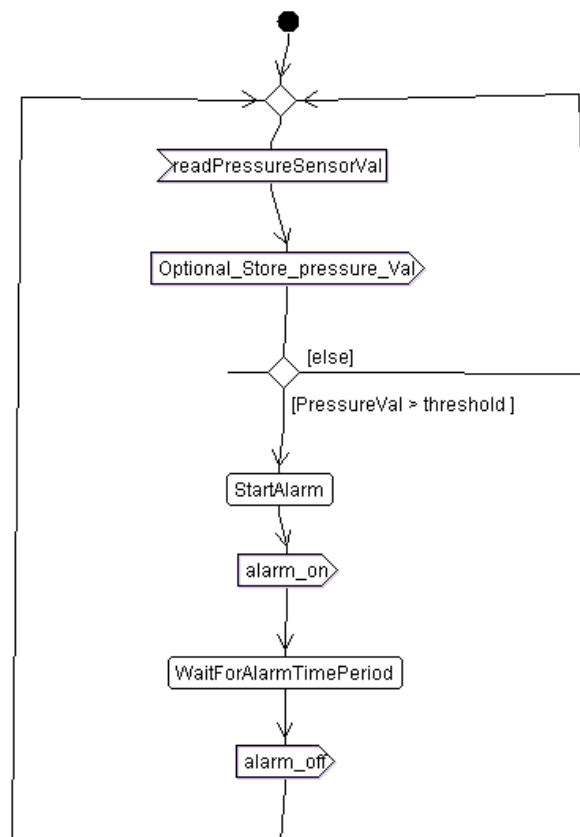


## IV. System Analysis

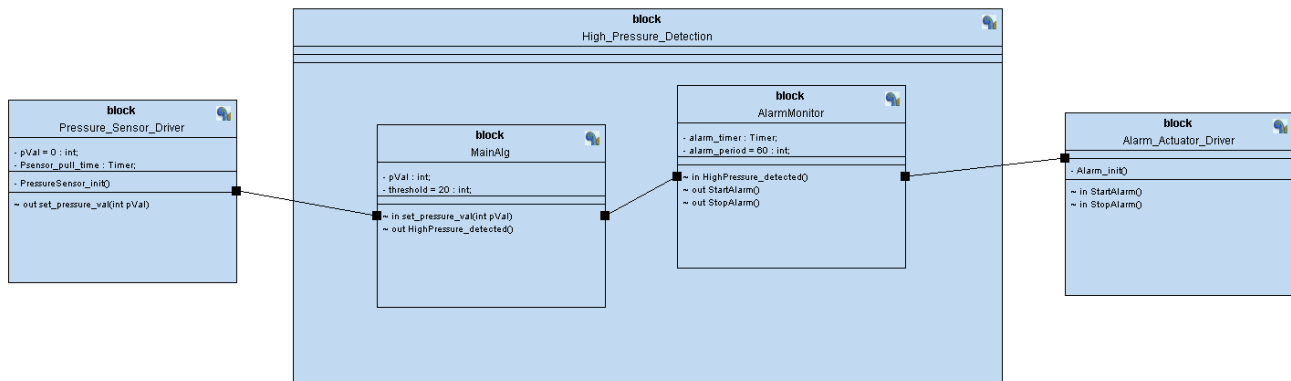
### i) Use case diagram.



### ii) Activity diagram.

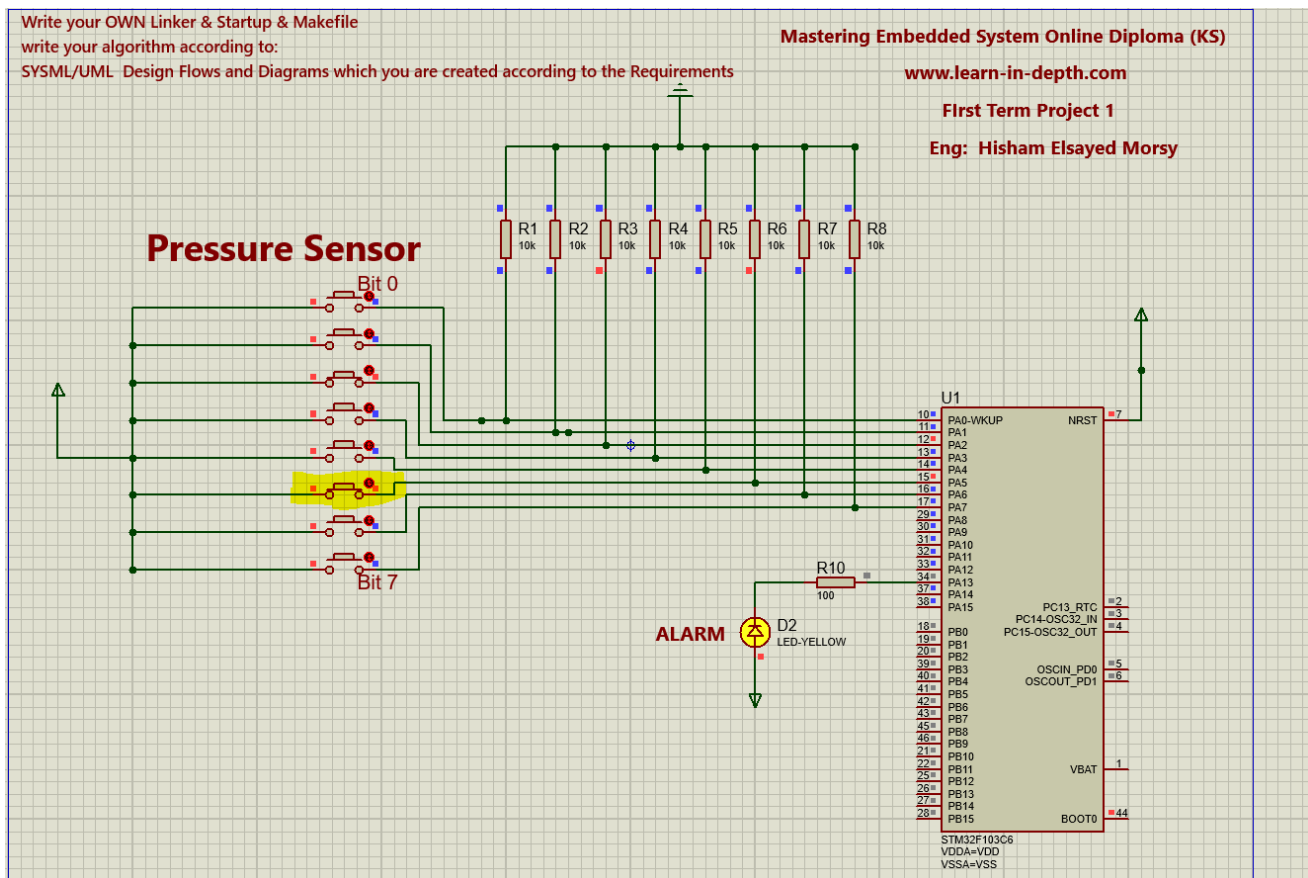


## V. Design



Pressure Reading: 32 (Greater than threshold)

- Alarm ON



## Pressure Reading: 6 (Less than threshold)

- Alarm OFF

Write your OWN Linker & Startup & Makefile

write your algorithm according to:

SYSML/UML Design Flows and Diagrams which you are created according to the Requirements

Mastering Embedded System Online Diploma (KS)

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First Term Project 1

Eng: Hisham Elsayed Morsy

