A picture containing auto part, car, automotive lighting, engine

Description automatically generated***Mastering Embedded Systems***

Online Diploma

**Project 1**

|  |
| --- |
| Pressure Controlling system. |

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# Learn In Depth

Be Professional In Embedded System

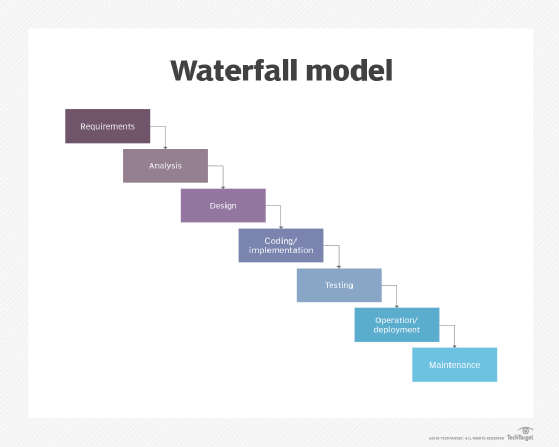
Eng. Keroles Shenouda

1. **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.

1. **Method**

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



1. **Requirement Diagram**

A screenshot of a computer

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1. **System Analysis**
   * 1. Use case diagram.

A diagram of a pressure monitoring system

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ii)Activity diagram.

A diagram of a process

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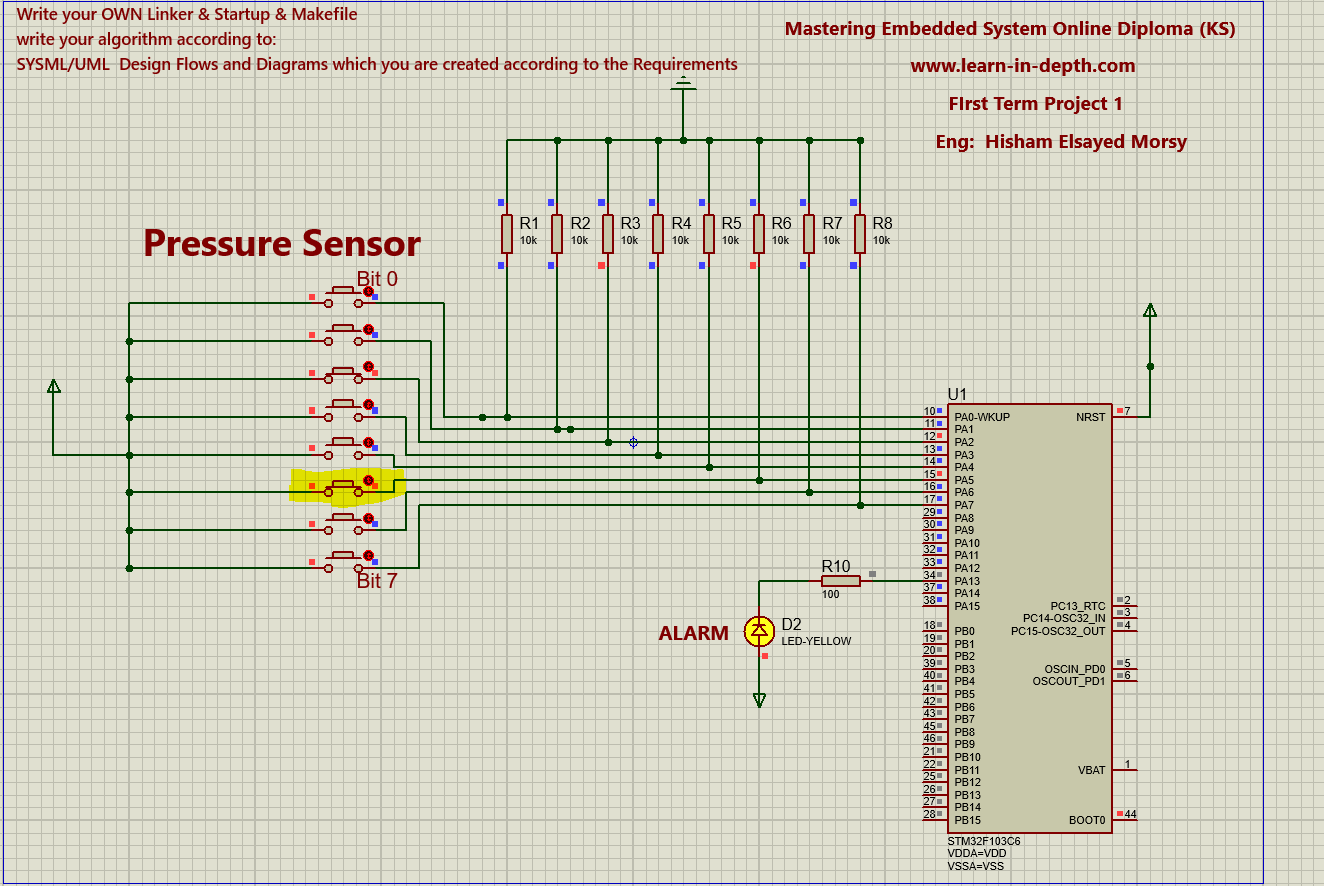
1. **Design**

A blue screen with black text

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Pressure Reading: 32 (Greater than threshold)

* Alarm ON



Pressure Reading: 6 (Less than threshold)

* Alarm OFF

