


First_Term_Project1



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.

Files Created:

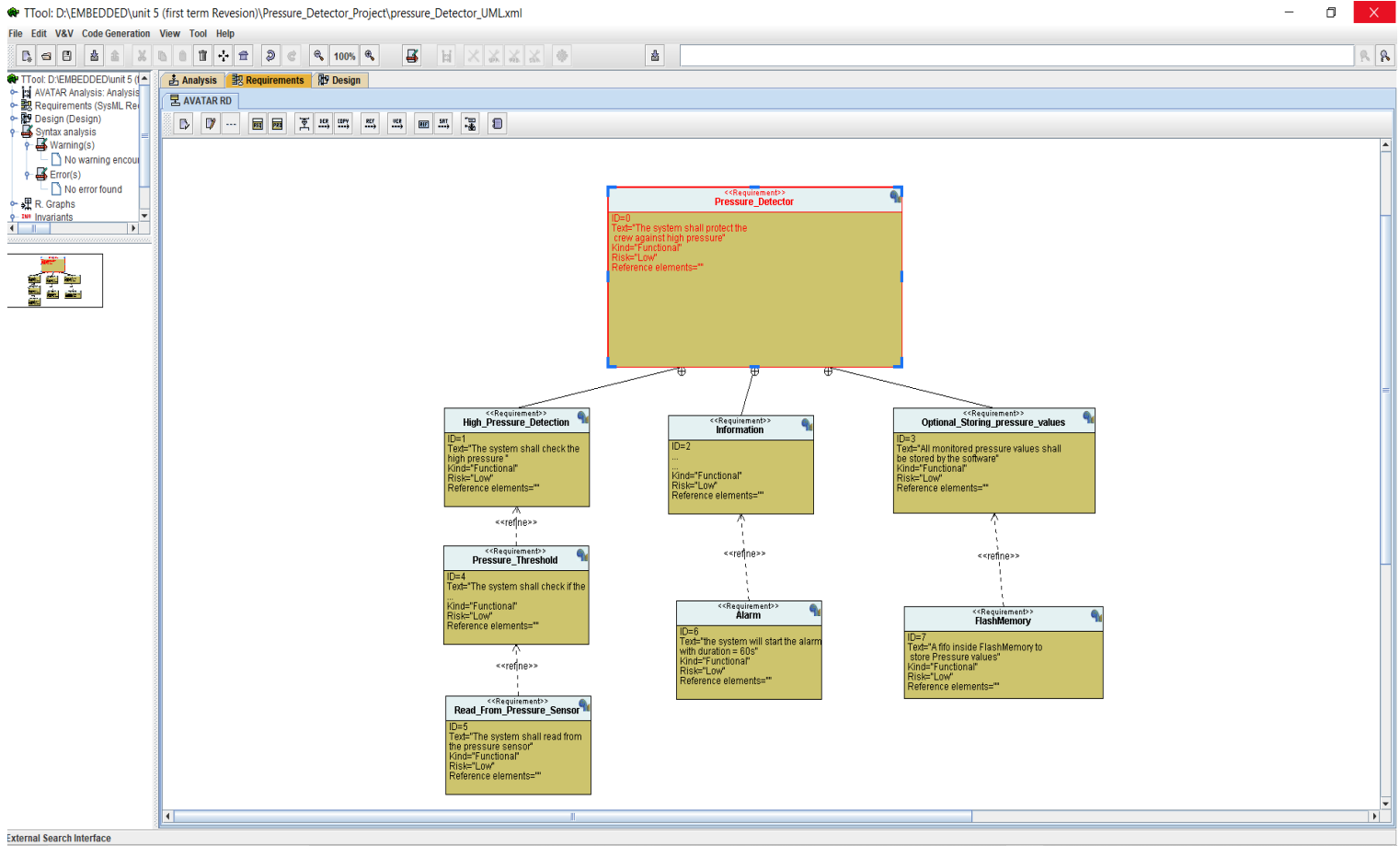
- main.c
- linker_script.ld
- startup.c
- Makefile
- alarm.c
- alarm.h
- Pressure_Sensor.c
- Pressure_Sensor.h
- Stm32_f103C6_Drivers.h
- stm32_f103C6_GPIO_Driver.c
- Stm32f103x6.h

Executable Files:

- Pressure_Detector_Project.elf
- Pressure_Detector_Project.bin

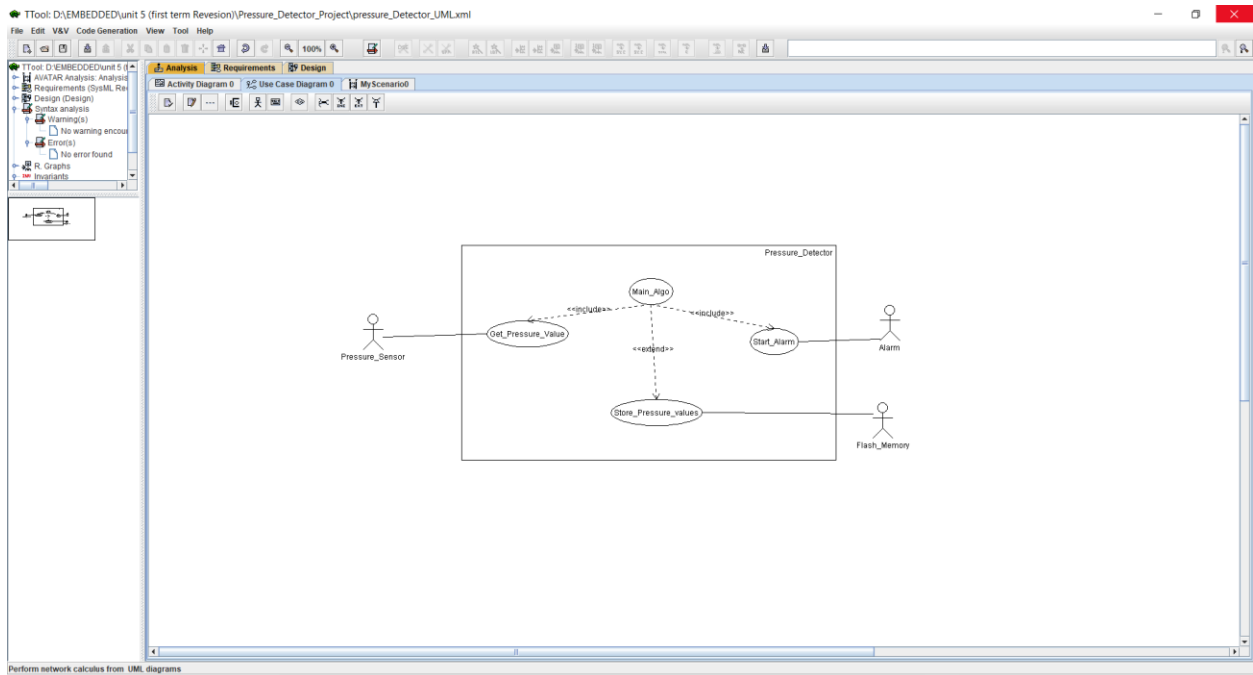
Name: Hady Samir Abdelfattah

➤ requirements Diagram

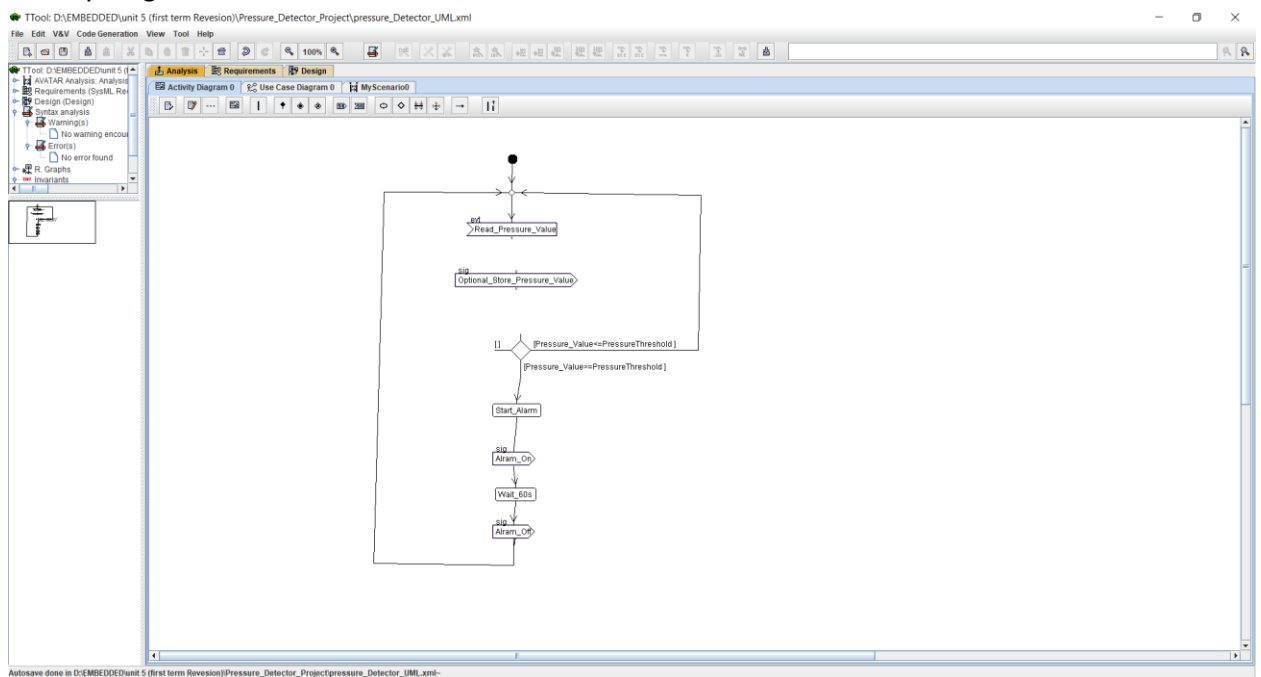


➤ System Analysis

1. Use Case Diagram

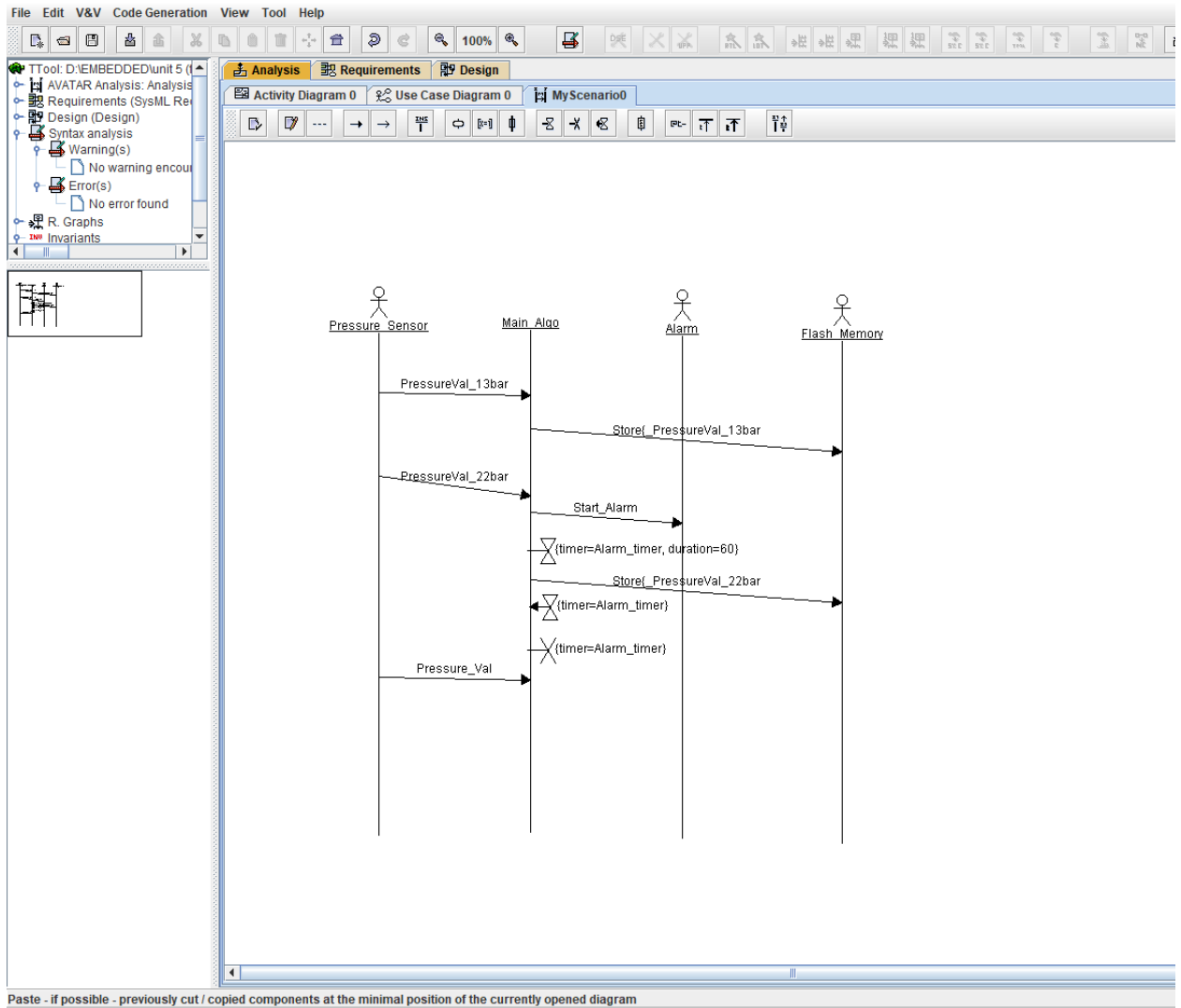


2. Activity Diagram

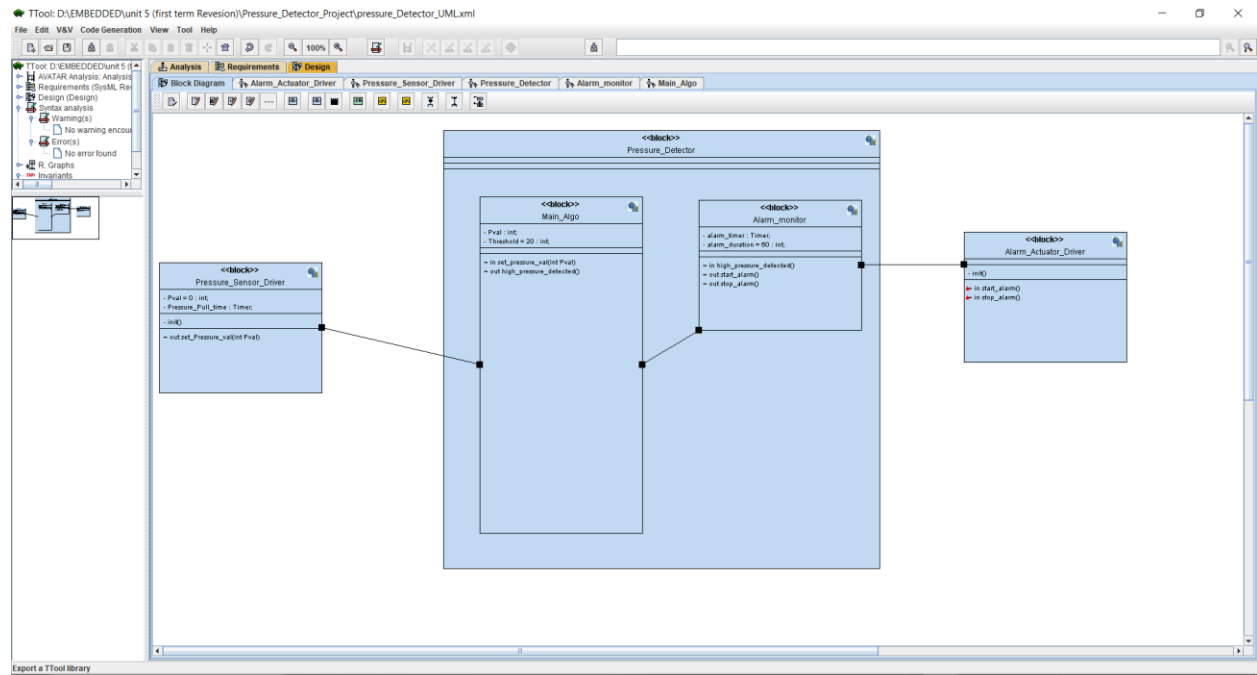


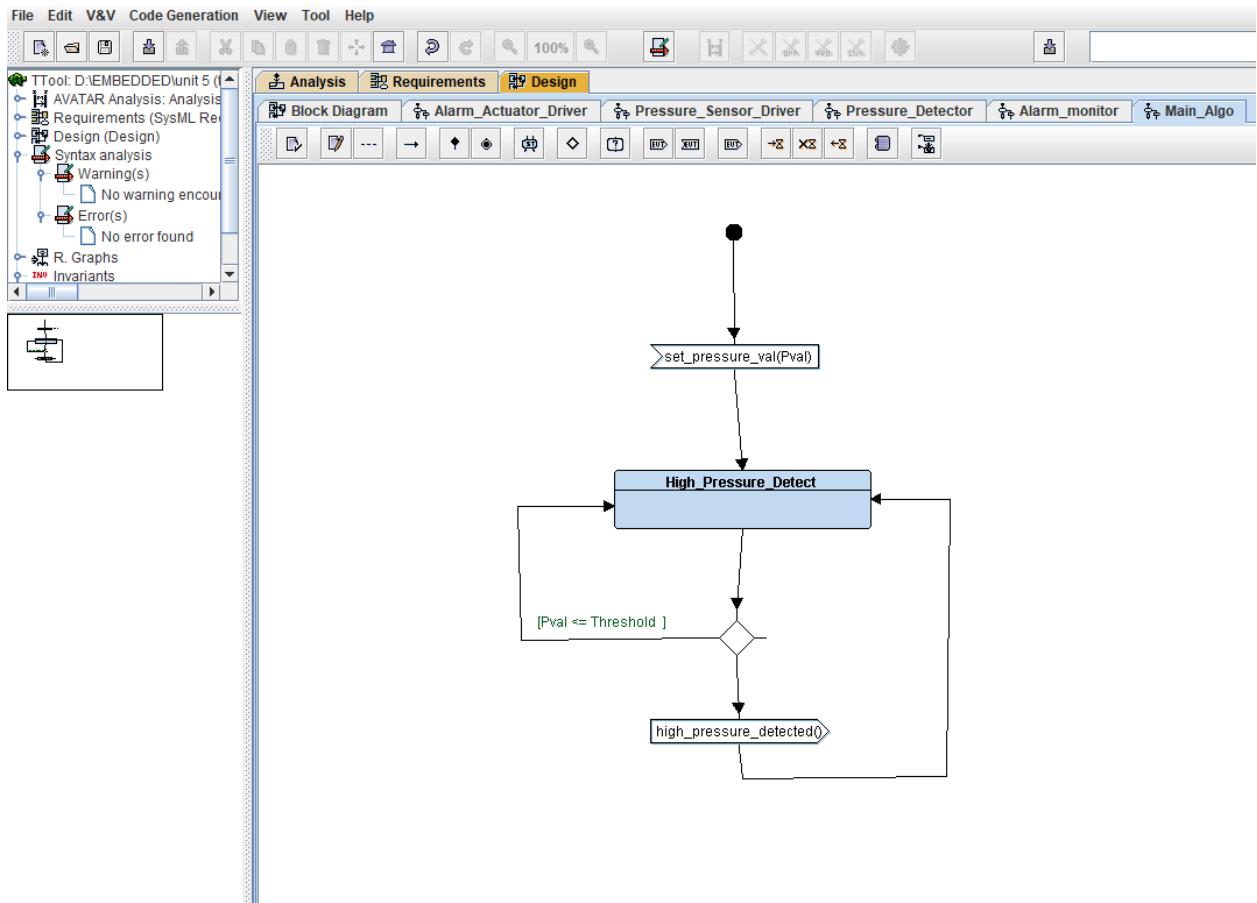
3. Sequence Diagram

TTool: D:\EMBEDDED\unit 5 (first term Revision)\Pressure_Detector_Project\pressure_Detector_UML.xml



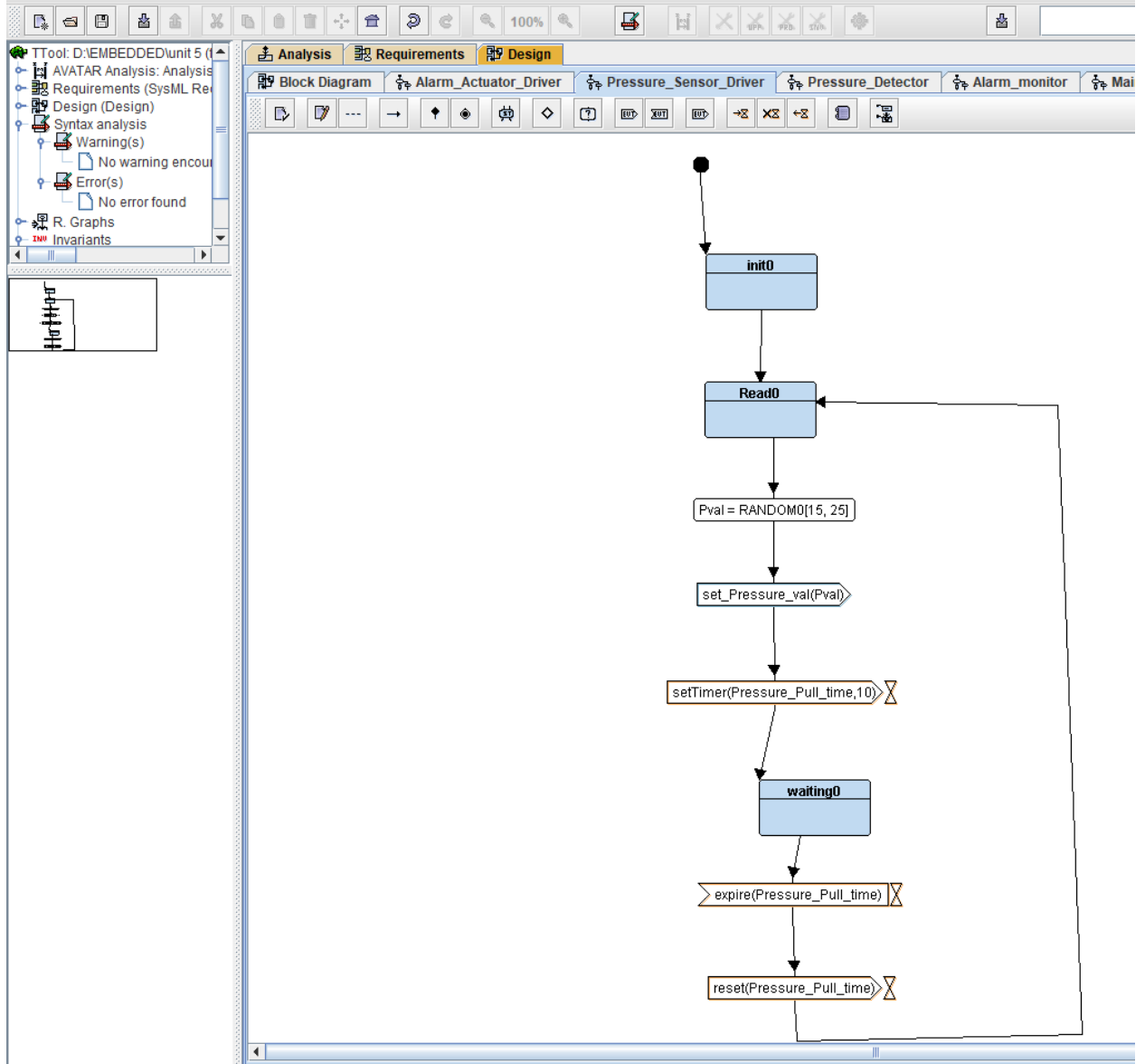
➤ System Design



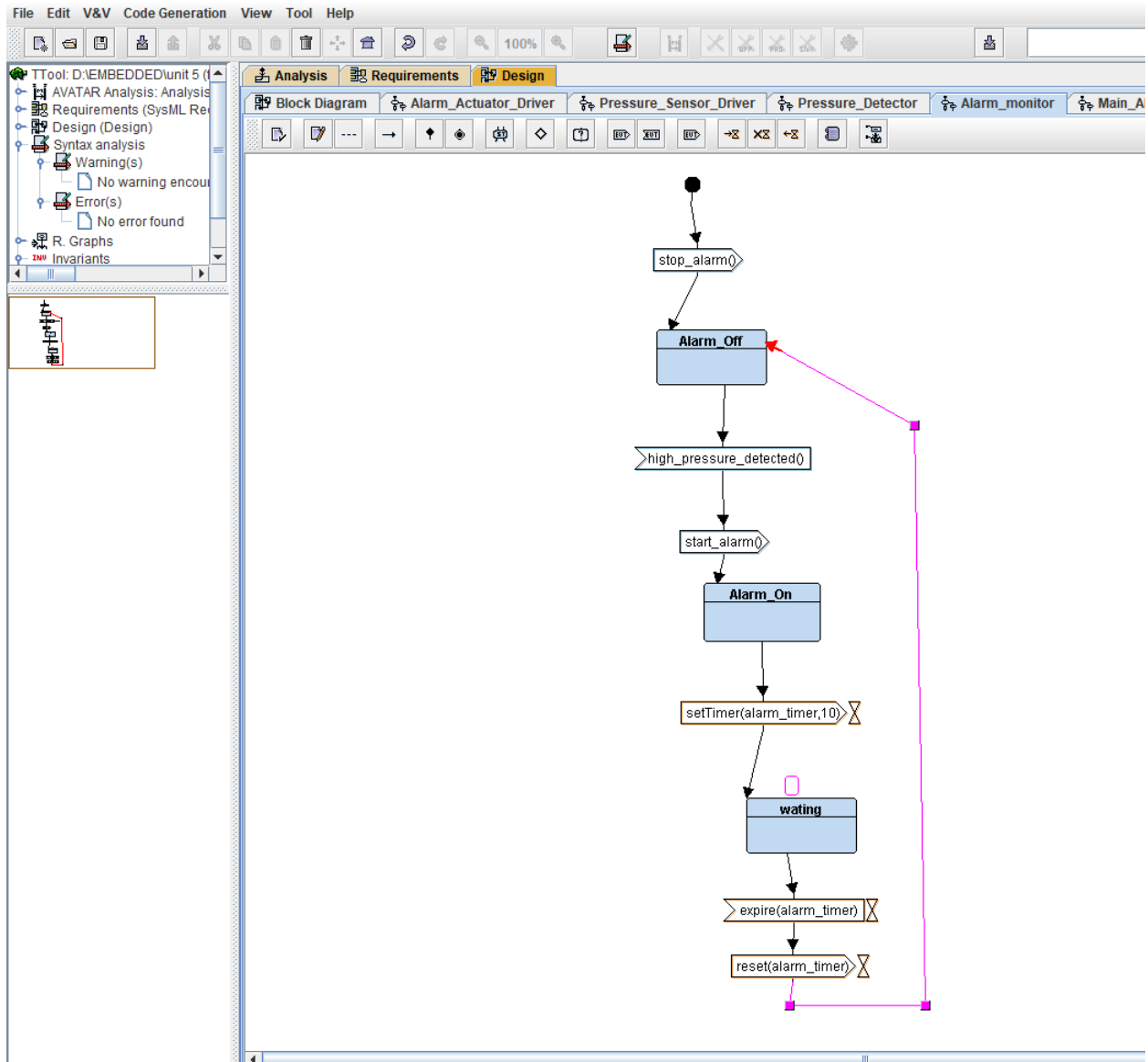


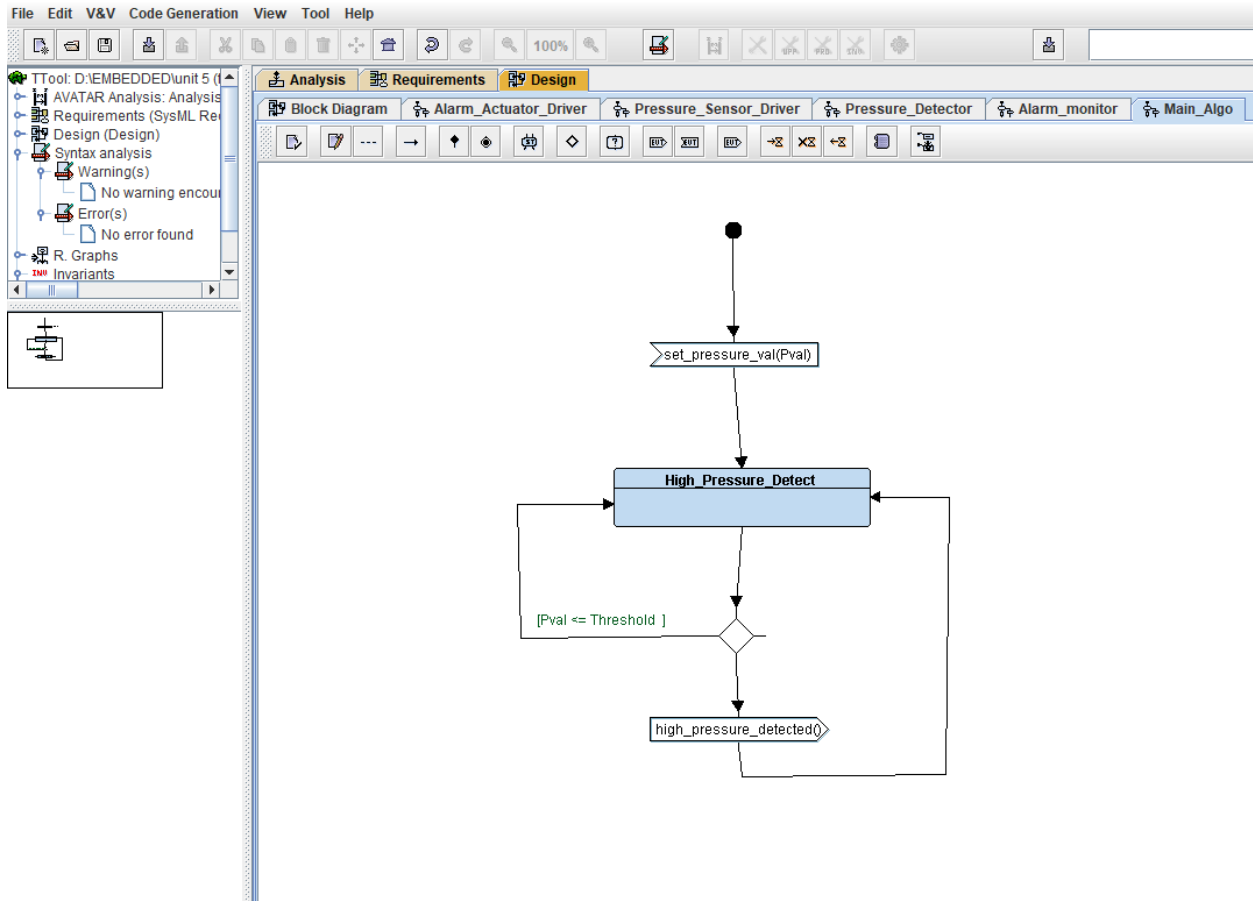
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➤ Project_Simulation

