

Mastering Embedded System

Learn In Depth

First-Term-Projects

Project 1

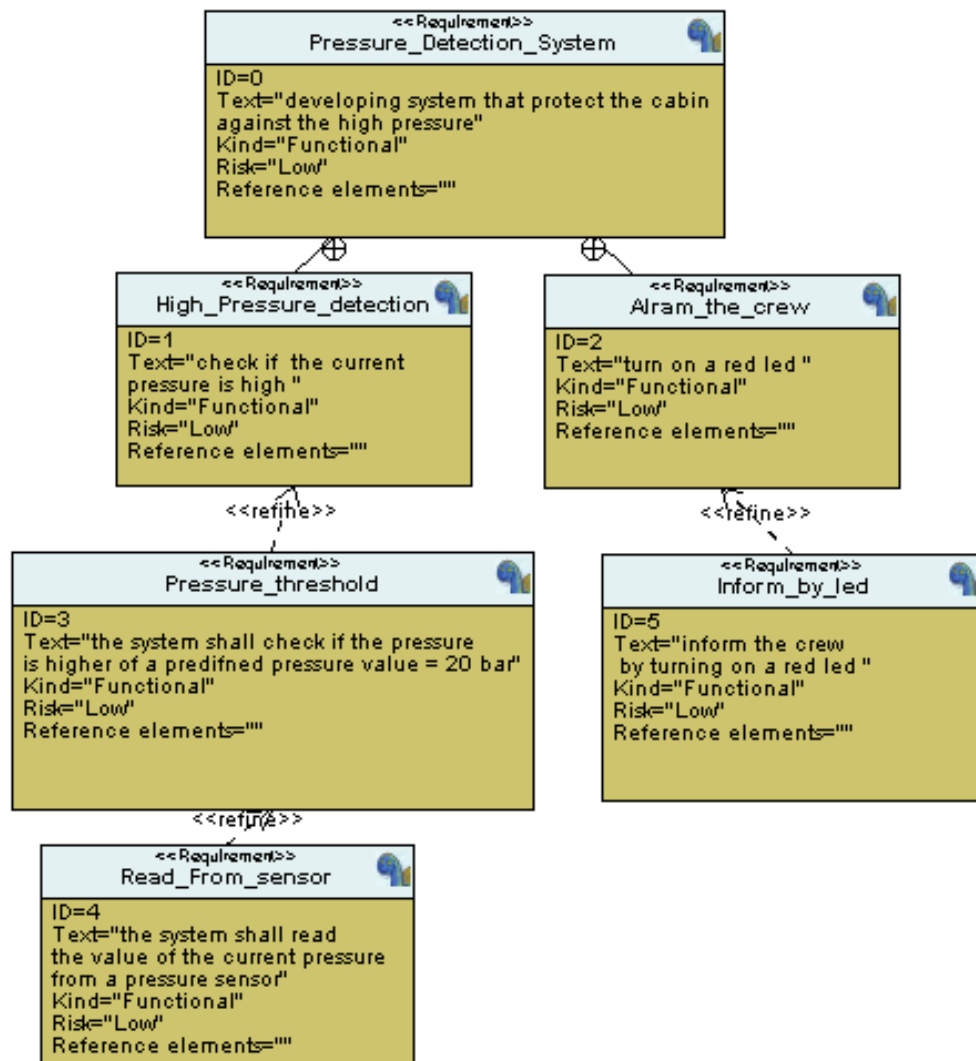
Name: Kyrillos Sawiris Fekry

Email:

<https://www.learn-in-depth.com/online-diploma/kyrillos.sawiris99%40gmail.com>

Pressure Controller

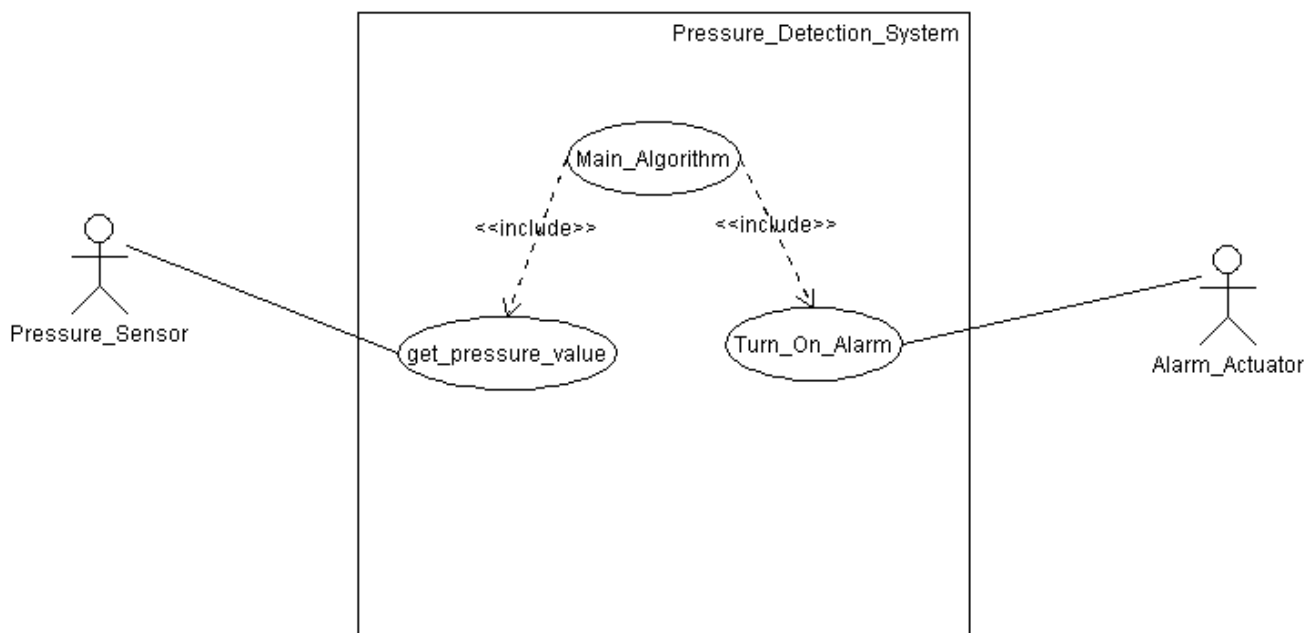
1. Requirement Diagram



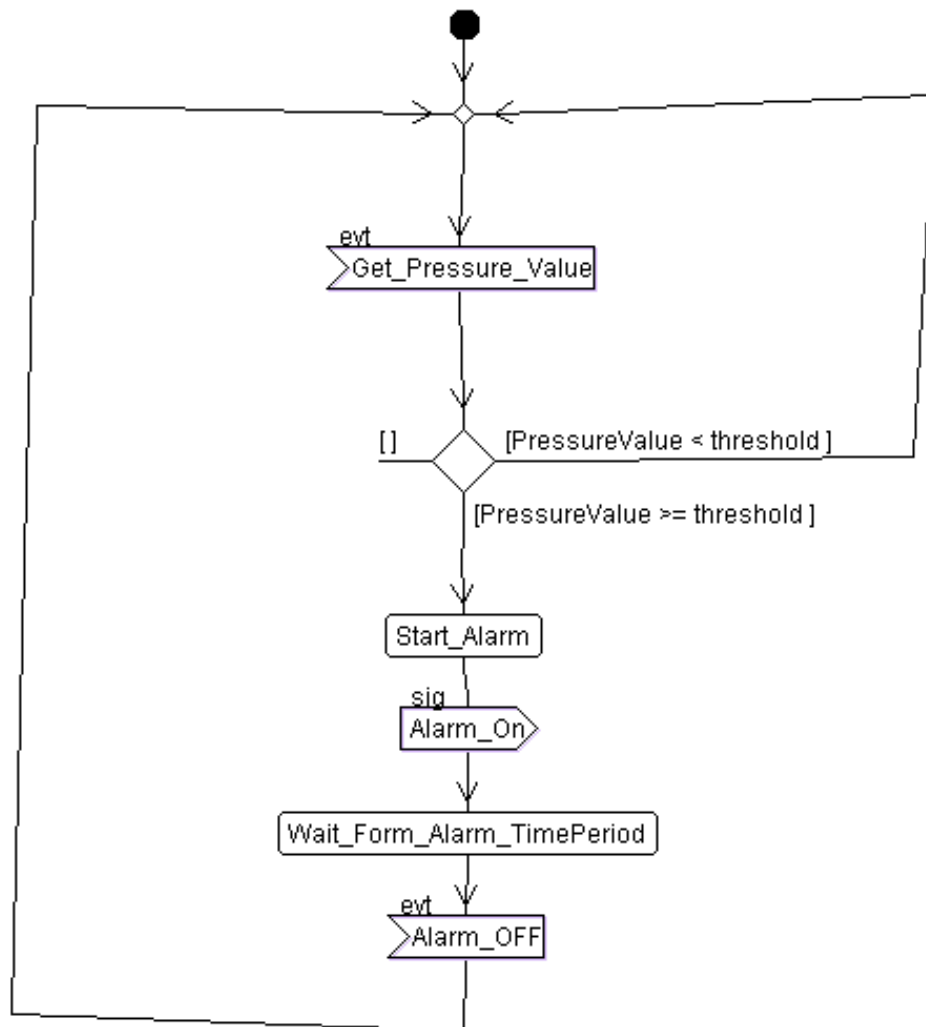
You have to check the current pressure value getting it from a pressure sensor
If it more than 20 bar you have to turn on an alarm for 60 sec.

2. System analysis

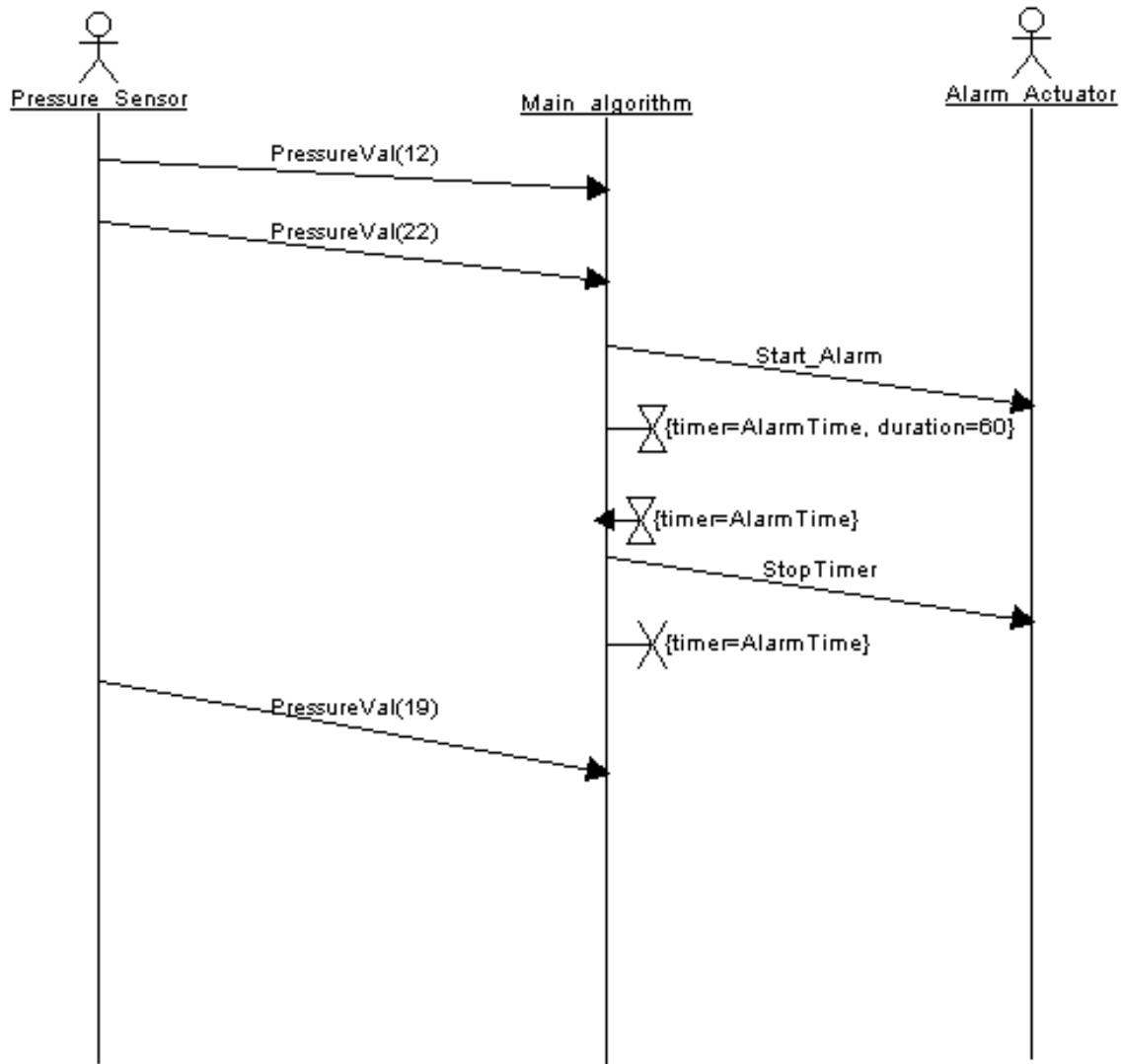
a. Use case Diagram



b. Activity Diagram

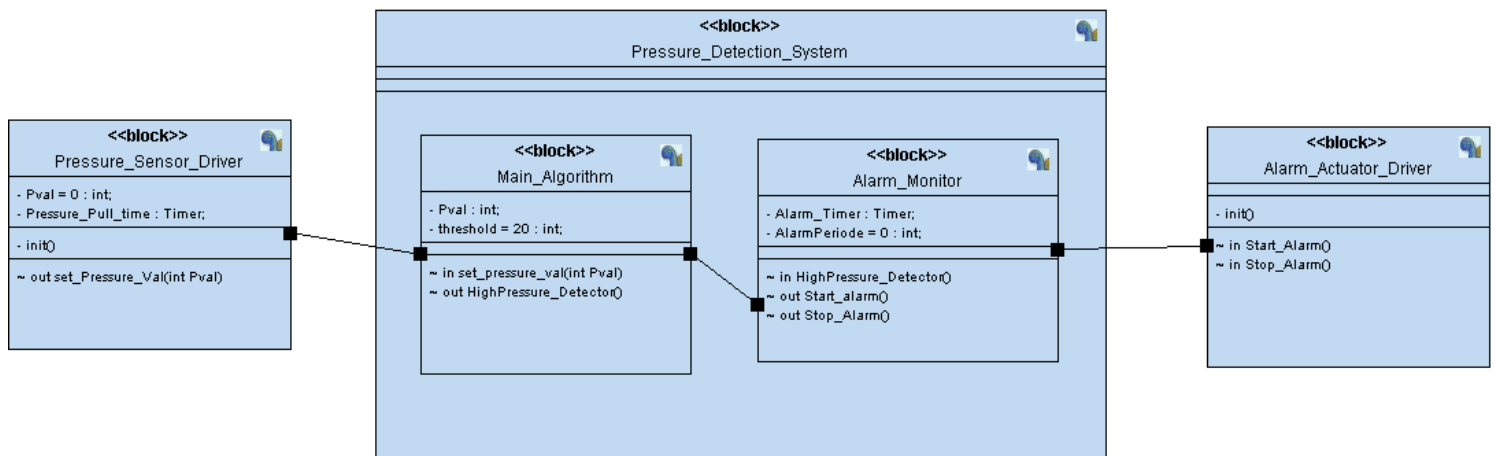


c. Sequence Diagram

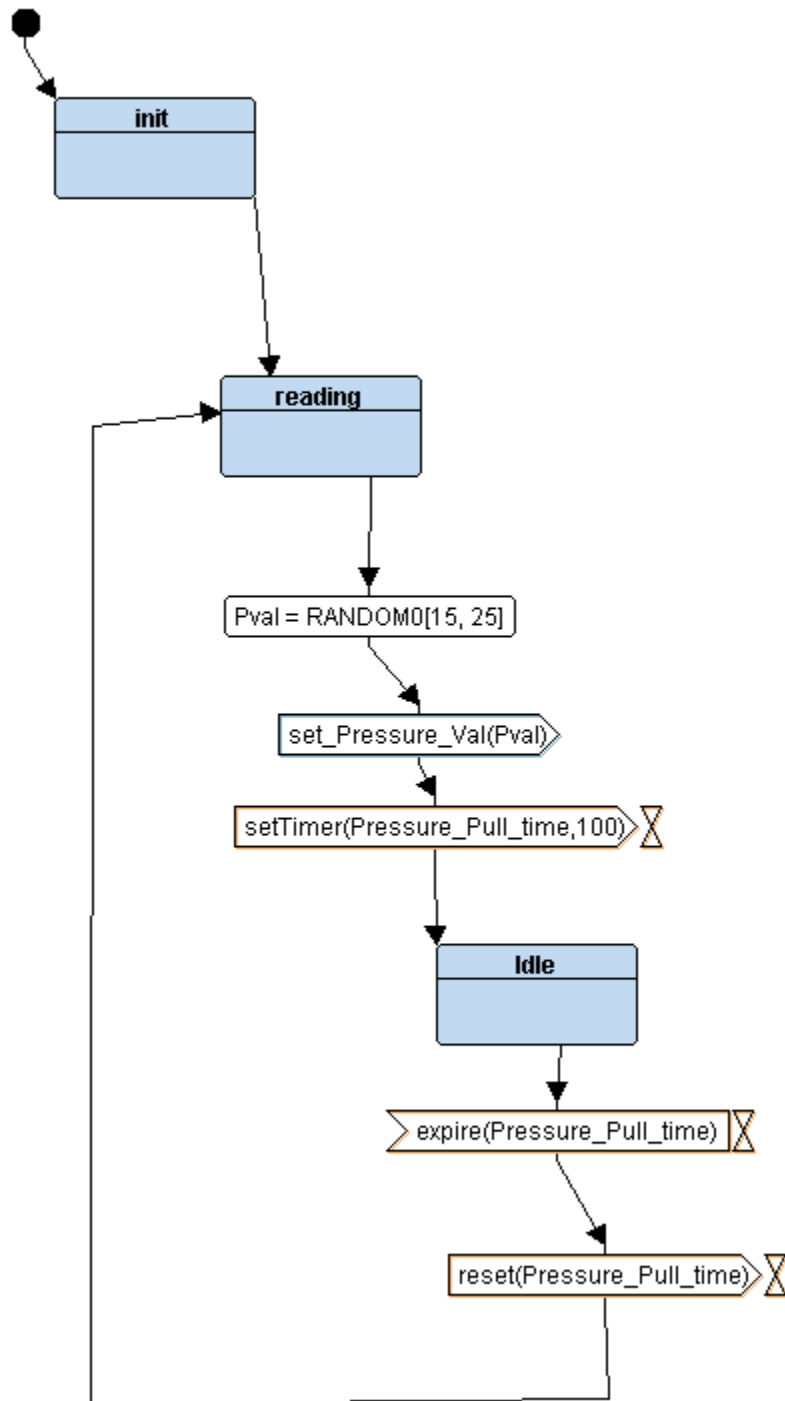


3. System Design

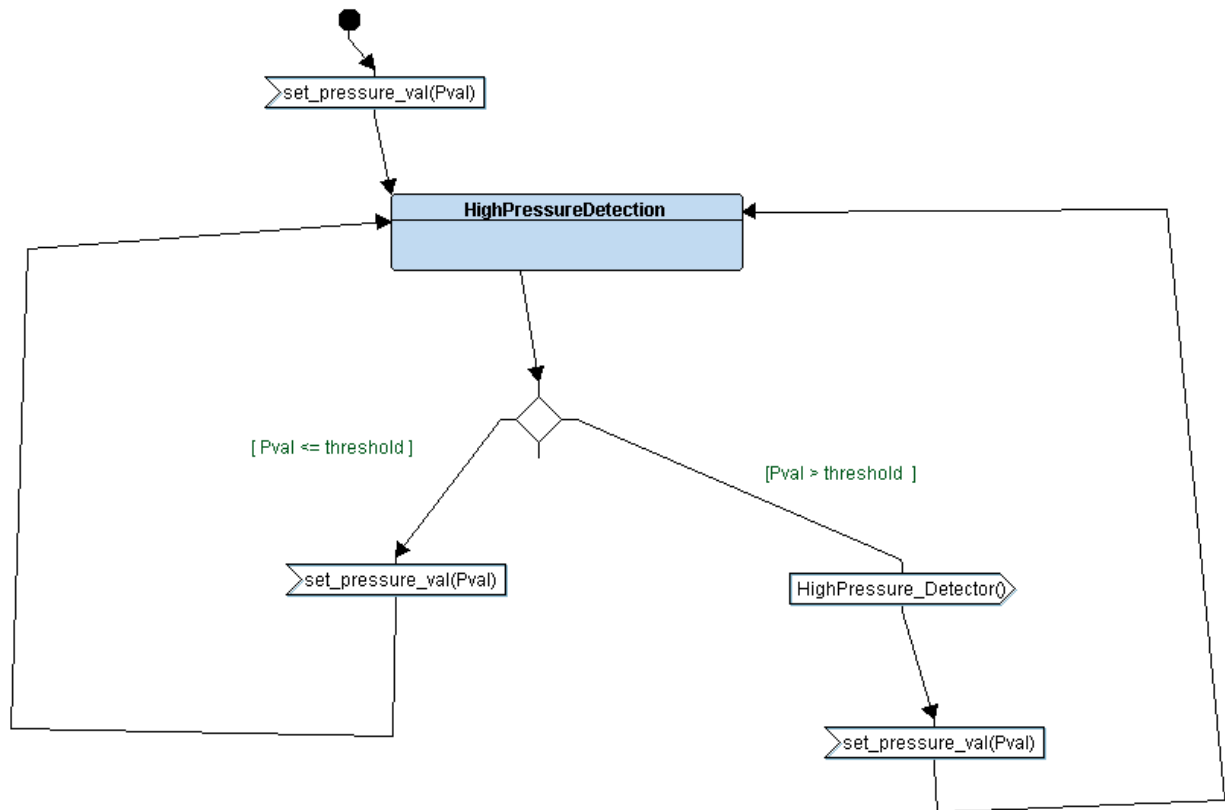
a. Block Diagram



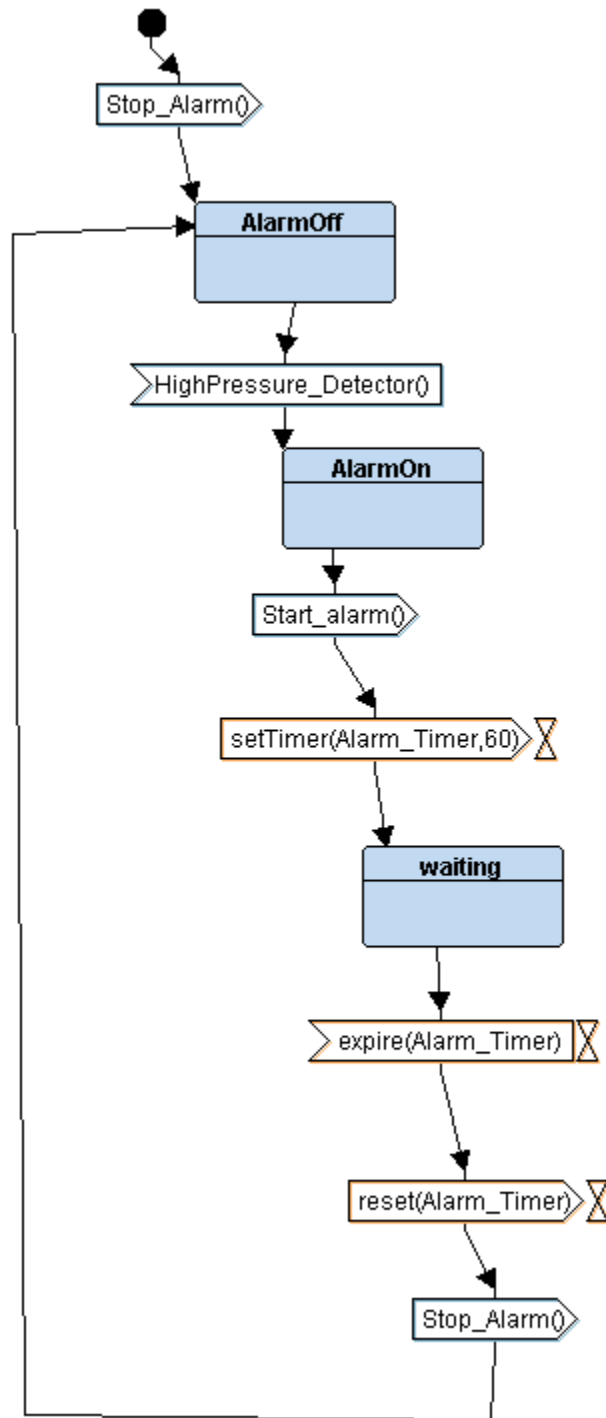
b. Pressure_Sensor_Driver



c. Main Algorithm



d. Alarm_Monitor



e. Alarm_Actuator_Driver

