Class Diagrams

Supervisor

- Username : String
- Password : double

+ Supervisor(String u, double p)
+ LogIn(Username, Password)
+resetSystem()
+pumpOnNormal()
+pumpOFFNormal()
+pumpOnOverride()
+pumpOFFOverride()
+readLog()
+addNoteToLog()

MineShaft Pump System

- pumpState : String
- SupervisorData : Supervisor
- OperatorData : Operator
- PumpData : Pump
- StaticHighWaterSensorData : Static High water Sensor
- StaticLowWaterSensorData : Static Low Water Sensor
- StaticMethaneSensorData : Methane Sensor
- PersistentLogData : Persistent Log

+PumpON()
+PumpOFF()
+alarmON()

Static High Water Sensor

- HWaterLevel : double

Operator

- Username : String
- Password : double

+Operator(String u, double p)
+pumpOnOP()
+PumpOFFOP()
+LogIn(Username, Password)
+readMethanLog()

Static Low Water Sensor

- LWaterLevel : double

Pump

+startPump()
+stopPump()

Static Methane Sensor

- MethaneLevel : double

Persistant Log

-HiWaterSensorHist: String
-LoWaterSensorHist : String
-SupervisorHist : String
-OperatorHist : String
-AlarmHist: String
-MethaneSensorHIst : String

+recordLog()