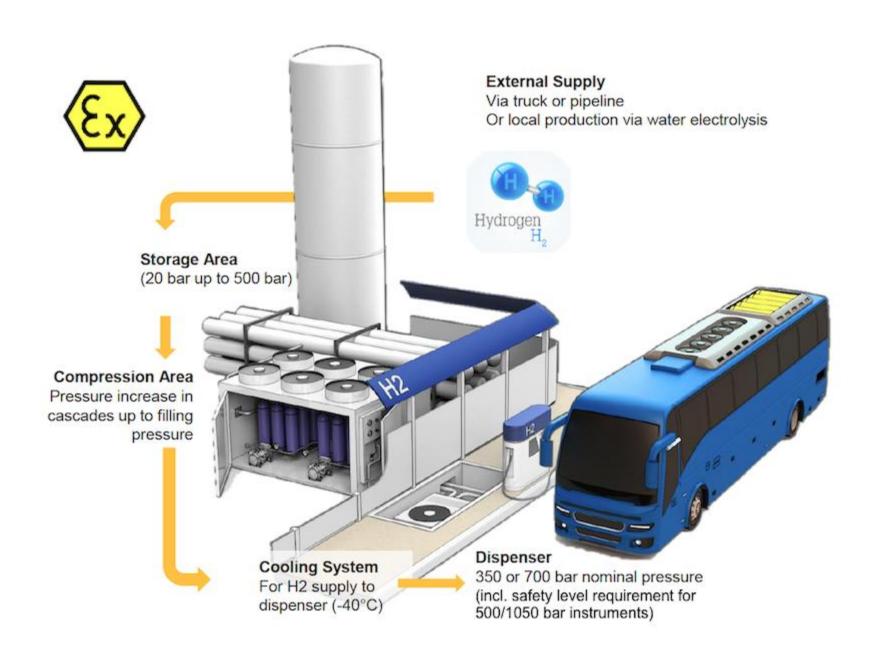
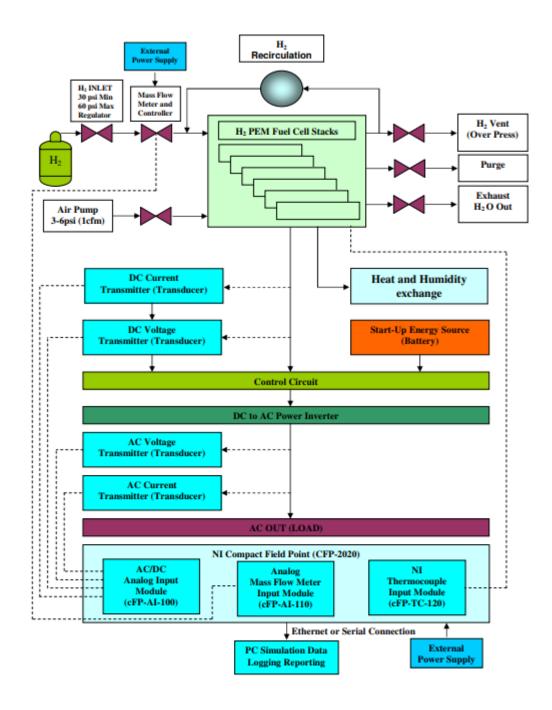
## Final project

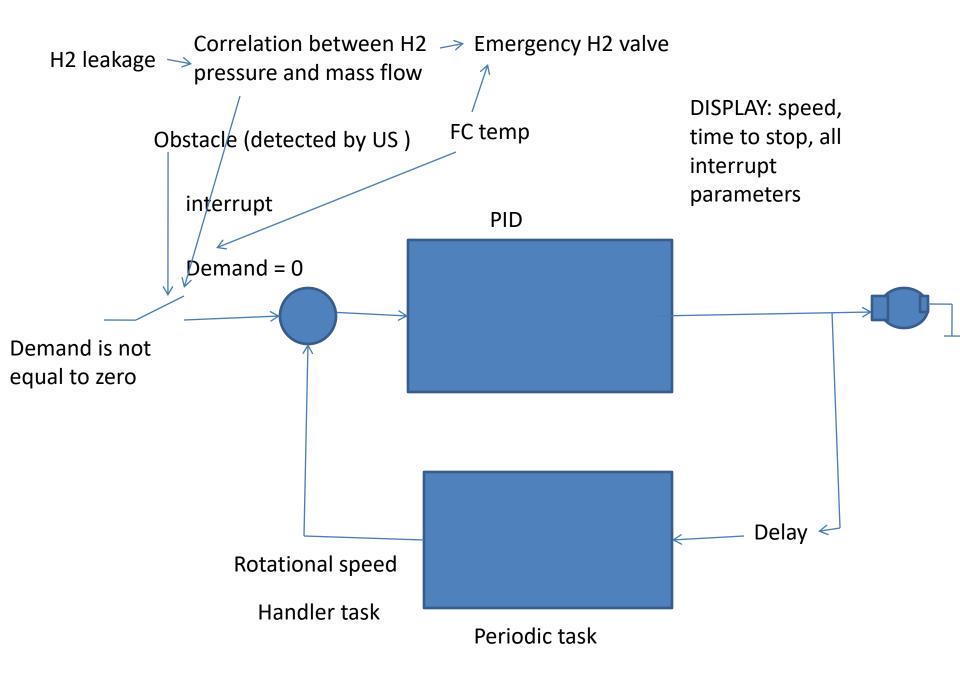
- Rotation speed measurement using encoder and rotation speed control using real time operating system (including hardware interrupt for emergency).
- Application:





Proton-exchange or Polymer Electrolyte Membrane (PEM) fuel cell

- Correlation between H2 pressure and mass flow – base for software simulation
- Correlation between mass flow and produces DC electric current + temperature (for Fuel Cell – type EPAC-500 Hydrogen fuel cell) – base for software simulation
- Software speed simulation of 2 motors
- Speed control using PID control algorithm, demand from user entry



$$Q = k * (P_in - P_out)$$

