## **Class Diagram for PID Controller**

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- # kp:float
- # ki:float
- # kd:float
- # threshold:float
- # cumulativeError:double
- # controlError:double
- + generalPidController()
- + ~generalPidController()
- + setGainValues(float, float, float):bool
- + computePidError(float, float, float) = 0:float
- + setThreshold(float):bool

## pidController

- + pidController()
- + ~pidController()
- + getGainValues():vector<float>
- + computePidError(float, float, float):float