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UML Diagram for PID Controller:

pidController

- Kp: double
- Ki: double
- Kd: double
- timestep: double
- errCur: double
- errPrev: double
- errInteg: double
- errDeriv: double

+ pidController():
+ setKp(double): void
+ setKi(double): void
+ setKd(double): void
+ setTimeStep(double): void
+ getKp(): double
+ getki(): double
+ getKd(): double
+ getTimestep(): double
+ getErrCur(): double
+ getErrPrev(): double
+ getErrInteg(): double
+ getErrDeriv(): double
+ findSpeed(double,double): double