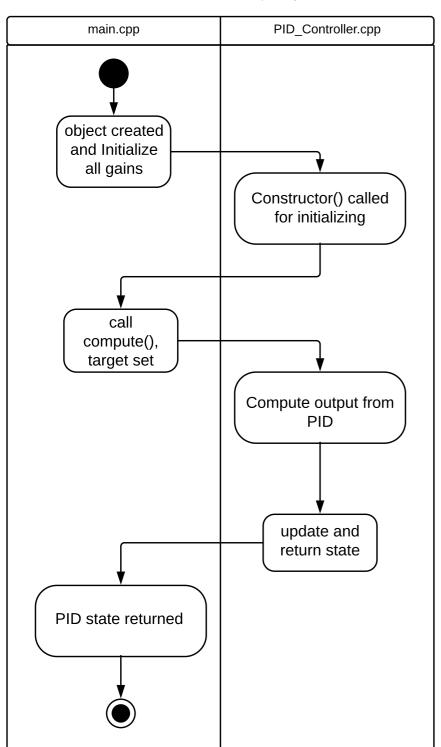
PID Controller Class Diagram



Controller

kP: doublekI: doublekD: doubleerror: double

controlOutput: doubleoutput: doubleinitialized: boolprevError: double

-intgError: double -currentState: double

- +Controller(void):void
- +isInitialized(void):bool
- +Controller(double,double,double):void
- +compute(double):void
- +getkP(void):double
- +setkP(double):void
- +getkI(void):double
- +setkI(double):void
- +getkD(void):double
- +setkD(double):void
- +setState(double):void
- +returnState(double):void