PIDController

- -Kp: vector<double>
- -Ki: vector<double>
- -Kd: vector<double>
- -targetSetPoint: vector<double>
- -finalVelocity: vector<double>
- -actualVelocity: vector<double>
- -errorSum: double
- -lastVelocity: double
- -maxLimitVel:double
- -maxLimitPos: vector<double>
- +changeGain(vector<double>,vector<double>): none
- +computeOutput(vector<double>):vector<double>
- +changeSetPoint(vector<double>):vector<double>
- +updateErrorSum(double):double
- +getKpGain():vector<double>
- +setKpGain(vector<double>):void
- +getKiGain():vector<double>
- +setKiGain(vector<double>):void
- +getKdGain():vector<double>
- +setKdGain(vector<double):void
- +getActualVelocity():vector<double>
- +setActualVelocity(vector<double>):void
- +getMaxLimitVel():vector<double>
- +setMaxLimitVel(vector<double>):void
- +getMaxLimitPos():vector<double>
- +setMaxLimitPos(vector<double>):void
- +getTargetSetPoint():vector<double>
- +setTargetSetPoint(vector<double>):void
- +resetSystem():string