PID TURTLEBOT

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pidController

- controllerNode : ros::NodeHandle
- position : tf::Point
- orientation : double
- linearVel : double
- angularVel : double
- velocityPub : ros::Publisher
- positionSub : ros::Subscriber
- kD : double
- kP : double
- kl · double

- + getControllerNode(): ros::NodeHandle
- + setControllerNode(): void
- + getPosition(): tf::Point
- + setPosition(tf::Point): void
- + getOrientation(): double
- + setOrientation(double): void
- + getLinearVel(): double
- + setLinearVel(double): void
- + getAngularVel(): double
- + setAngularVel(double): void
- + getVeliocityPub() : ros::Publisher
- + setVelocityPub(ros::Publisher) : void
- + getPositionSub(): ros::Subscriber
- + setPositionSub(ros::Subscriber) : void
- + getKD(): double
- + setKD(double) : void
- + getKP(): double
- + setKP(double) : void
- + getKI(): double
- + setKI(double): void
- + euclideanDist(tf::Point, tf::Point) : double
- + calcVel(tf::Point, tf::Point) : void