iotbot_motion_control CMotionControl: public rclcpp::Node + CMotionControl() + ~CMotionControl() # velSub_ : rclcpp::Subscription<geometry_msgs::msg::Twist>::SharedPtr # chassisParams_ : ChassisParams # conversionParams_ : RobotConversionParams # rpm_ = : std::array<float, 4> # normalizeValues() : void # publishRpm() : void # velocityCallback() : virtual void # calculateKinematic(): virtual void : rclcpp::Publisher<iotbot_interface::msg::RotationSpeed>::SharedPtr - rpmPub_ - motorParams_ : MotorParams - setChassisParams(): void - setMotorParams() : void - calculateRobotProperties() : void CMotionOmnidirectionalNode : public CMotionControl CMotionDifferentialNode : public CMotionControl + CMotionOmnidirectionalNode() + CMotionDifferentialNode() + ~CMotionOmnidirectionalNode() + ~CMotionDifferentialNode() velocityCallback() : voidcalculateKinematic() : void velocityCallback() : voidcalculateKinematic() : void

CShieldNode : public rclcpp::Node + CShieldNode() + ~CShieldNode() · rpmSub_ : rclcpp::Subscription<iotbot_interface::msg::RotationSpeed>::SharedPtr : rclcpp::Publisher<iotbot_interface::msg::RotationSpeed>::SharedPtr - rpmPub_ : rclcpp::Publisher<iotbot_interface::msg::Battery>::SharedPtr - batteryPub_ currentTime_ : rclcpp::Time : rclcpp::Time - lastTime_ : rclcpp::Duration deltaTime_ serialPort_ : CShield : SSerialRequestData - serialSendData_ - serialReceiveData_ : SSerialResponseData - rpmCallback(rpmMsg : const iotbot_interface::msg::RotationSpeed::SharedPtr) : void - checkIfRpmMsgIsNew(): void - publishRpm() : void - publishVoltage(): void

iotbot_shield

CShield + CShield() + CShield() + openPort(): bool + openPort(): bool + closePort(): void + isPortOpened(): bool + send(): bool + receive(): bool - SSerialParams params_ uart_ : std::unique_ptr<mraa::Uart> · isPortOpened_ : bool readParamFile() : bool - initParamStruct() : void - setBaudrate(): bool - setMode() : bool - setFlowControl(): bool - fillTxBuffer() : bool - fillDataFromRxBuffer() : bool - setTxBufferWith(): template void - getValueFromRxBuffer() : template void