

ControllerOne

Main

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- SEND_TIME: int
- MAC: String
- encoderPort1: int = 2
- encoderPort2: int = 3
- encoderPort3: int = 18
- encoderPort4: int = 19
- encoderPort5: int = 20
- encoderPort6: int = 21
- timeOnStart: unsigned long
- timeToSend: unsigned long
- lastTimeSended: unsigned long
- currentTime: unsigned long
- diffTime: unsigned long
- loopCounter: int
- lastEncoder1Value: unsigned long
- previousEncoder1Value: unsigned long
- lastEncoder2Value: unsigned long
- previousEncoder2Value: unsigned long
- lastEncoder3Value: unsigned long
- previousEncoder3Value: unsigned long
- lastEncoder4Value: unsigned long
- previousEncoder4Value: unsigned long
- lastEncoder5Value: unsigned long
- previousEncoder5Value: unsigned long
- lastEncoder6Value: unsigned long
- previousEncoder6Value: unsigned long
- incomingFlag: char
- canSend: boolean = false
- packageCounter: unsigned int
- encoder1: Encoder
- encoder2: Encoder
- encoder3: Encoder
- encoder4: Encoder
- encoder5: Encoder
- encoder6: Encoder
- lcd: LiquidCrystal

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- setup(): void
- loop(): void
- configureInterruptions(): void
- verifyStartCommand(): void
- myTimer(): bool
- sendPackage(): void
- fillDataInPackage(String): String
- calculesSpin(unsigned long, int): int
- writeInLCD(String, int): void
- counter1(): void
- counter2(): void
- counter3(): void
- counter4(): void
- counter5(): void
- counter6(): void

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Encoder

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- encoderPort: int
- pulseCounter: unsigned long

+ Encoder(int)
+ getEncoderPort(): int
+ initPulseCounter(): void
+ getPulseCounter(): unsigned long
+ getSpinCounter(int): unsigned int
+ increasePulseCounter(): void
- setEncoderPort(int): void

```