

Encoder	Odometry	MotorController	PID
<ul style="list-style-type: none"> - timer_: TIM_HandleTypeDef* - previous_millis_: uint32_t - current_millis_: uint32_t - ticks_: int32_t - wheel_circumference_: float - ticks_per_revolution_: int 	<ul style="list-style-type: none"> - left_setpoint_: float - right_setpoint_: float - linear_velocity_: float - angular_velocity_: float - baseline_: float 	<ul style="list-style-type: none"> - sleep_gpio_port_: GPIO_TypeDef* - sleep_pin_: uint16_t - dir_gpio_port_: GPIO_TypeDef* - dir_gpio_pin: uint16_t - pwm_timer_: TIM_HandleTypeDef* - pwm_channel_: uint32_t - max_dutycycle_: int32_t 	<ul style="list-style-type: none"> - kp_: float - ki_: float - kd_: float - error_: float - setpoint_: float - error_sum_: float - previous_error_: float - min: int - max: int
<ul style="list-style-type: none"> + GetCount(): int + ResetCount(): int + Setup(): void + UpdateValues(): void + GetMeters(): float + GetLinearVelocity(): float 	<ul style="list-style-type: none"> + FromCmdVelToSetpoint(float, float): void + FromWheelVelToOdom(float, float): void 	<ul style="list-style-type: none"> + Setup(): void + SetSpeed(int): void + Brake(): void + Coast(): void 	<ul style="list-style-type: none"> + Config(float, float, float, int, int): void + Set(float): void + Update(float): void