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/**
 * Ofile opcontrol.c
 * Obrief Controls what happens in operator control
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#include <string.h>
#include "../include/robot.h"
#define MOGO_HOLD 300
extern bool isAuto;
int digital (unsigned char joyNum,
            unsigned char channel,
            unsigned char b1,
            unsigned char b2) {
        return joystickGetDigital(joyNum, channel, b2) * -1 +
               joystickGetDigital(joyNum, channel, b1) * 1;
} /* digital */
void moveDrive();
void moveMogo();
void skillsMogo();
void moveArm();
void moveClaw();
void clawPID();
void autonLeft22();
void autonLeft22T();
void operatorControl() {
        #ifdef DEBUG_MODE
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#endif
        reset();
        update();
        isAuto = false;
        clawSettings.target = claw.sensor->value;
        armSettings.target = arm.sensor->value;
        /*
        if (armLimit[0].value) {
                armSettings.target = ARM_QUARTER;
                PID(GarmSettings);
        }
        */
        bool isSkills = strstr(autons[selectedAuton].name, "skills");
        while (true) {
                if (joystickGetDigital(1, 7, JOY_LEFT) &&
                    joystickGetDigital(2, 7, JOY_LEFT)) {
                        exit(0);
                }
                moveDrive();
                moveMogo();
                if (isSkills) {
                        // skillsMogo();
                        if (joystickGetDigital(2, 7, JOY_DOWN)) {
                                reset();
                                sensorReset(drive[0].sensor);
                                sensorReset(drive[1].sensor);
                                sensorReset(arm.sensor);
                                sensorReset(mogo.sensor);
                                sensorReset(&gyro);
                                autonLeft22();
                        }
                moveArm();
                clawPID();
                update();
                delay(20);
} /* operatorControl */
```

printf("Starting Driver Control...\n");

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void moveDrive() {
        drive[0].power = deadBand(joystickGetAnalog(1, 3), 10) +
                         127 * digital(1, 7, JOY_UP, JOY_DOWN) +
                         127 * digital(1, 7, JOY_RIGHT, JOY_LEFT);
        drive[1].power = deadBand(joystickGetAnalog(1, 2), 10) +
                         127 * digital(1, 8, JOY_UP, JOY_DOWN) +
                         127 * digital(1, 8, JOY_LEFT, JOY_RIGHT);
} /* moveDrive */
void moveMogo() {
        int power = 127 * digital(1, 6, JOY_UP, JOY_DOWN) +
                     127 * digital(2, 5, JOY_UP, JOY_DOWN);
        if ((mogo.power == 127 || mogo.power == 9) && !power)
                power = 9;
        mogo.power = power;
} /* moveMogo */
void skillsMogo() {
        if ((mogo.sensor->value <= MOGO_HOLD) &&
            !joystickGetDigital(1, 5, JOY_DOWN) &&
            !joystickGetDigital(2, 7, JOY_UP)) {
                mogo.power = clipNum(mogo.power,
                                     127,
                                      (MOGO_HOLD - mogo.sensor->value) * .9 + 13);
} /* skillsMogo */
void moveArm() {
        static unsigned long lastPress;
        if (digital(2, 6, JOY_DOWN, JOY_UP) || (millis() - lastPress < 90)) {</pre>
                arm.power = 127 * digital(2, 6, JOY_UP, JOY_DOWN);
                if (arm.power) {
                        lastPress = millis();
                if (armLimit[0].value) {
                        sensorReset(arm.sensor);
                        arm.power = clipNum(arm.power, 0, -127);
                } else if (armLimit[1].value) {
                        arm.sensor->zero = arm.sensor->value - 1000;
                                         = clipNum(arm.power, 127, 0);
                        arm.power
                armSettings.target = arm.sensor->value;
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} else if (armLimit[0].value) {
                  sensorReset(arm.sensor);
                armSettings.target = 0;
                arm.power
                                  = 0;
        } else if (armLimit[1].value) {
                arm.sensor->zero = arm.sensor->value - 1000;
                armSettings.target = 1000;
                arm.power
                                   = 0;
        } else {
                PID(&armSettings);
        }
} /* moveArm */
void moveClaw() {
        if (deadBand(joystickGetAnalog(2, 4), 10)) {
                claw.power = joystickGetAnalog(2, 4);
        } else {
                claw.power = 0;
        }
} /* moveClaw */
void clawPID() {
        static unsigned long lastPress;
        static bool lastDir;
        static int power;
        power = joystickGetAnalog(2, 4);
        if (power) {
                                    = power > 0;
                lastDir
                                    = -power;
                claw.power
                clawSettings.target = claw.sensor->value;
                lastPress
                                    = millis();
        } else if (millis() - lastPress < 275) {</pre>
                clawSettings.target = claw.sensor->value + 50;
        } else if (lastDir) {
                claw.power = 0;
        } else {
                PID(&clawSettings);
        }
} /* clawPID */
void autonLeft22T(void *none) {
        autonLeft22();
        taskDelete(NULL);
}
```