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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 moveIntake();
void moveLift();
void manipPID();
void moveManip();
void autonLeft22();
void autonLeft22T();
void operatorControl() {
        #ifdef DEBUG_MODE
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printf("Starting Driver Control...\n");
#endif
reset();
update();
isAuto = false;
manipSettings.target = manip.sensor->value;
liftSettings.target
                      = lift.sensor->value;
     if (liftLimit[0].value) {
          liftSettings.target = ARM_QUARTER;
          PID(&liftSettings);
     }
bool isSkills = strstr(autons[selectedAuton].name, "skills");
while (true) {
        if (joystickGetDigital(1, 7, JOY_LEFT) &&
            joystickGetDigital(2, 7, JOY_LEFT)) {
                exit(0);
        }
        if (isSkills) {
                // skillsMogo();
                if (joystickGetDigital(2, 7, JOY_DOWN)) {
                        reset();
                        sensorReset(drive[0].sensor);
                        sensorReset(drive[1].sensor);
                        sensorReset(lift.sensor);
                        sensorReset(mogo.sensor);
                        sensorReset(&gyro);
                        autonLeft22();
                }
        }
        moveDrive();
        moveMogo();
        moveIntake();
        moveLift();
        manipPID();
        update();
        delay(20);
}
```

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} /* operatorControl */
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, 5, JOY_UP, JOY_DOWN);
        if (((mogo.power == 127) || (mogo.power == 9)) && !power)
                power = 9; mogo.power = power;
} /* moveMogo */
void moveLift() {
        static unsigned long lastPress;
        if (digital(2, 6, JOY_DOWN, JOY_UP) + digital(1, 6, JOY_UP, JOY_DOWN) || (millis() -
                lift.power = 127 * (digital(1, 6, JOY_UP, JOY_DOWN) +
                if (lift.power) {
                        lastPress = millis();
                if (liftLimit[0].value) {
                        sensorReset(lift.sensor);
                        lift.power = clipNum(lift.power, 0, -127);
                } else if (liftLimit[1].value) {
                        lift.sensor->zero = lift.sensor->value - 1000;
                                          = clipNum(lift.power, 127, 0);
                        lift.power
                liftSettings.target = lift.sensor->value;
        } else if (liftLimit[0].value) {
                  sensorReset(lift.sensor);
                liftSettings.target = 0;
                lift.power
        } else if (liftLimit[1].value) {
                lift.sensor->zero = lift.sensor->value - 1000;
                liftSettings.target = 1000;
                lift.power
                                    = 0;
        } else {
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PID(&liftSettings);
} /* moveLift */
void moveManip() {
        manip.power = 127 * digital(2, 8, JOY_UP, JOY_DOWN);
void moveIntake() {
        intake.power = 127 * digital(2, 5, JOY_UP, JOY_DOWN);
} /* moveIntake */
void manipPID() {
        static unsigned long lastPress;
        static int power;
        if (joystickGetDigital(2, 7, JOY_UP))
                manipSettings.target = MANIP_PLACE;
        else if (joystickGetDigital(2, 7, JOY_RIGHT))
                manipSettings.target = MANIP_HOVER;
        else if (joystickGetDigital(2, 7, JOY_DOWN))
                manipSettings.target = MANIP_INTAKE;
        power = 127 * digital(2, 8, JOY_UP, JOY_DOWN);
        if (power) {
                if (manip.sensor->value < MANIP_PLACE && power > 0) {
                        manipSettings.target = MANIP_PLACE;
                        PID(&manipSettings);
                } else {
                        manip.power
                                              = power;
                        manipSettings.target = manip.sensor->averageVal;
                                              = millis();
                        lastPress
        } else if (millis() - lastPress < 190) {</pre>
                manip.power = 0;
        } else {
                PID(&manipSettings);
} /* manipPID */
void autonLeft22T(void *none) {
        autonLeft22();
        taskDelete(NULL);
} /* autonLeft22T */
```