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/**
 * @file autoRight.c
 * @brief Right side autonomous routines
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 *
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 */

#include "../include/auto.h"

void autonRight12() {
    getMogo(); // Get the mobile goal

    turnTo(5, 300); // Align to a right tilt
    driveSettings[0].max -= 40; // Limit left side speed
    driveToPosition(300, 700, 2200); // Back up
    driveSettings[0].max += 40; // Correct speed
    turnTo(165, 2000); // Turn around
    delay(400);

    // Reset drive encoders & gyro
    sensorReset(drive[0].sensor);
    sensorReset(drive[1].sensor);
    sensorReset(&gyro);

    driveToPositionAngle(900, 1100, -13, 1850); // Drive arc -13 degrees
    GO(placeConeT, NULL); // Place cone
    mogoP(MOGO_DOWN);

    driveSet(-127, -127); // Back up the drive
    delay(130);
    mogoP(MOGO_DOWN - 300); // Bring the mobile goal up a bit
    delay(250);
    driveSet(0, 0); // Stop the drive
}

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        liftSettings.target = lift.sensor->averageVal; // Reset the lift position to it's
                                                    // current position
    } /* autonRight12 */

    void autonRight22() {
        getMogo(); // Get the mobile goal

        gyroSettings[0].tolerance--;
        gyroSettings[1].tolerance--;
        turnTo(10, 575); // Align to a right tilt
        gyroSettings[0].tolerance++;
        gyroSettings[1].tolerance++;
        driveSettings[0].max -= 40; // Limit left side speed
        GO(placeConeT, NULL); // Place cone
        driveToPosition(788, 388, 2200); // Back up
        driveSettings[0].max += 40; // Correct speed
        turnTo(-158, 2000); // Turn around

        // Reset drive encoders & gyro
        sensorReset(drive[0].sensor);
        sensorReset(drive[1].sensor);
        sensorReset(&gyro);

        driveToPositionAngle(1300, 1400, -13, 1800); // Drive arc -13 degrees

        // turnTo(59, 750);

        sensorReset(drive[0].sensor);
        sensorReset(drive[1].sensor);
        sensorReset(&gyro);

        driveToPositionAngle(1050, 1050, 0, 1425); // Drive straight

        driveSet(30, 30);
        mogoP(MOGO_DOWN); // Drop mobile goal

        // Wait a bit for the mobile goal to settle
        driveSet(100, 100);
        delay(350);

        driveSet(-127, -127); // Back up the drive
        delay(650);
        TaskHandle mogoUpHandle = GO(mogoPT, MOGO_UP);
        delay(500); // Make sure that the robot isn't touching a field
                  // element
        driveSet(0, 0); // stop the robot
    }

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while (taskGetState(mogoUpHandle) != TASK_DEAD) {  
    delay(10);  
}  
  
liftSettings.target = lift.sensor->averageVal; // Reset the lift position to it's  
                                              // current position  
} /* autonRight22 */
```