```
/**
 * Ofile autoRight.c
 * Obrief Right side autonomous routines
 * Copyright (C) 2017 Ethan Wells
 * This program is free software: you can redistribute it and/or modify it
 * under the terms of the GNU General Public License as published by the Free
 * Software Foundation, either version 3 of the License, or(at your option) any
 * later version.
 * This program is distributed in the hope that it will be useful, but WITHOUT
 * ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
 * FOR A PARTICULAR PURPOSE. See the GNU General Public License for more
 * details.
 * You should have received a copy of the GNU General Public License along
 * with this program. If not, see <a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>
#include "../include/auto.h"
void autonRight12() {
        getMogo();
                                         // Get the mobile goal
                                         // Align to a right tilt
        turnTo(5, 300);
        driveSettings[0].max -= 40;
                                         // Limit left side speed
        driveToPosition(300, 700, 2200); // Back up
        driveSettings[0].max += 40; // Correct speed
                                        // Turn around
        turnTo(165, 2000);
        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
```

```
armSettings.target = arm.sensor->averageVal; // Reset the arm 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);
                            // Make sure that the robot isn't touching a field
        delay(500);
                             // element
                            // stop the robot
        driveSet(0, 0);
```