T Robot code

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#include <kipr/wombat.h>
void RT(float degree);
void LT(float degree);
void drive(int distance);
void drivefast(int distance);
void servo(int port, int position, int speed){
  int servo position = get servo position(port);
  while(servo position != position){
     if(servo_position > position){
       servo position -=1;
    if(servo_position < position){</pre>
       servo position +=1;
     set_servo_position(port,servo_position);
     msleep(speed);
  set servo position(port, servo position);
  msleep(50);
int main()
  enable servos(1); //begining start up wave.
  servo(1,900,5);
  servo(1,1420,5);
  disable_servo(1);
  drivefast(3500); //Go to middle of table.
  RT(90);
  drivefast(7000);
  motor(2,0);
  motor(1,0);
  msleep(500);
  enable servos(1); // Rase servo arm and face cups.
  servo(1,900,5);
  disable servos(1);
```

```
LT(90);
motor(2,0);
motor(1,0);
msleep(500);
enable servos(2); // open, close, open claw arm.
servo(2,1000,1);
servo(2,500,1);
servo(2,1600,1);
disable servos(2);
enable servos(2); //Open claw to get ready to pick up cup
servo(2,1250,1);
disable_servos(2);
  drive(320); // drive forward a little
motor(2,0);
motor(1,0);
msleep(500);
enable servos(1); //bring arm down over the cup
servo(1,1240,1);
disable_servos(1);
enable_servos(2); // close claw to grab cup THIS ONE IS IMPORTANT !!!!!!
servo(2,1500,1);
disable servos(2);
enable servos(1); // pick up cup into the air
servo(1,600,1);
disable_servos(1);
LT(90);
              //Trun left drive forward
drive(2000);
motor(2,0);
motor(1,0);
msleep(500);
LT(90);
                                              //turn left to face drop off point
motor(2,0);
motor(1,0);
msleep(500);
drive(200);
                                     //drive forward
```

```
motor(2,0);
  motor(1,0);
  msleep(500);
                      //lower arm down
  enable servos(1);
  servo(1,1240,1);
  disable_servos(1);
  enable_servos(2);
                         //open claw to drop cup
  servo(2,1250,1);
  disable_servos(2);
  enable_servos(1);
                         //arm raises up out of the way.
  servo(1,600,1);
  disable_servos(1);
  //motor(2,0);
                  // stop at end.
  //motor(1,0);
  //msleep(500);
  return 0;
}
                                                                        // Not Part Of Code
!!!!!!!!!!!!!!!!!!!
void RT(float degree)
  cmpc(2);
  while (gmpc(2)<degree*14.44)
    motor(2,50);
    motor(1,-50);
void LT(float degree)
  cmpc(1);
  while (gmpc(1)<degree*14.44)
     motor(2,-50);
     motor(1,50);
  }
```