## 头部自由度固定

在LIFT/body/ROS/src/ARX\_LIFT\_ros/arx\_lift\_controller/src/lift\_controller.cpp中 将订阅回调中,如下两行注释

```
代码块
1 control_loop.setHeadYaw(yaw);
2 control_loop.setHeadPitch(pitch);
```

```
ros::Subscriber sub = nh.subscribe<arm control::PosCmd>(
           "/ARX VR L", 1, [&](const arm control::PosCmd::ConstPtr &msg) {
             collect = true;
             control loop.setHeight(msg->height / 41.54);
             control loop.setWaistPos(msg->tempFloatData[0]);
             double yaw, pitch;
             double left arm distance square =
                 pow(msg->x, 2) + pow(msg->y, 2) + pow(msg->z, 2);
             double right arm distance square = pow(right arm xyz[0], 2) +
                                                pow(right arm xyz[1], 2) +
                                                pow(right arm xyz[2], 2);
             if (left arm distance square < 0.01 &&
                 right arm distance square < 0.01) {
               yaw = 0;
               pitch = 0.3;
             } else if (left_arm distance square > right arm distance square)
               solveHeadPos(&yaw, &pitch, msg->x + init pos[0] - 0.07,
                            msg->y + init pos[1] + 0.25,
                            msg->z + init pos[2] - 0.22);
             else
               solveHeadPos(&yaw, &pitch, right arm xyz[0] + init pos[0] - 0.07,
                            right arm xyz[1] + init pos[1] - 0.25,
                            right arm xyz[2] + init pos[2] - 0.22);
             control loop.setHeadYaw(yaw);
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             control loop.setHeadPitch(pitch);
             if (type == 0)
               control loop.setChassisCmd(msg->chx / 2.5, -msg->chy / 2.5,
                                          msg->chz / 2.5, msg->model);
               control loop.setChassisCmd(msg->chx / 3, -msg->chy / 3, msg->chz / 3,
                                          msg->mode1);
```

在主函数中,调用此两个函数进行姿态设置,单位为rad

```
ros::Inme last_pub = ros::Inme::now();
while (ros::ok()) {
    control_loop.loop();

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    control_loop.setHeadYaw(0);
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    control_loop.setHeadPitch(0.1);

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    if ((ros::Time::now() - last cb time).toSec() >
```