

Control the Arms!

Lynbrook Robotics Software



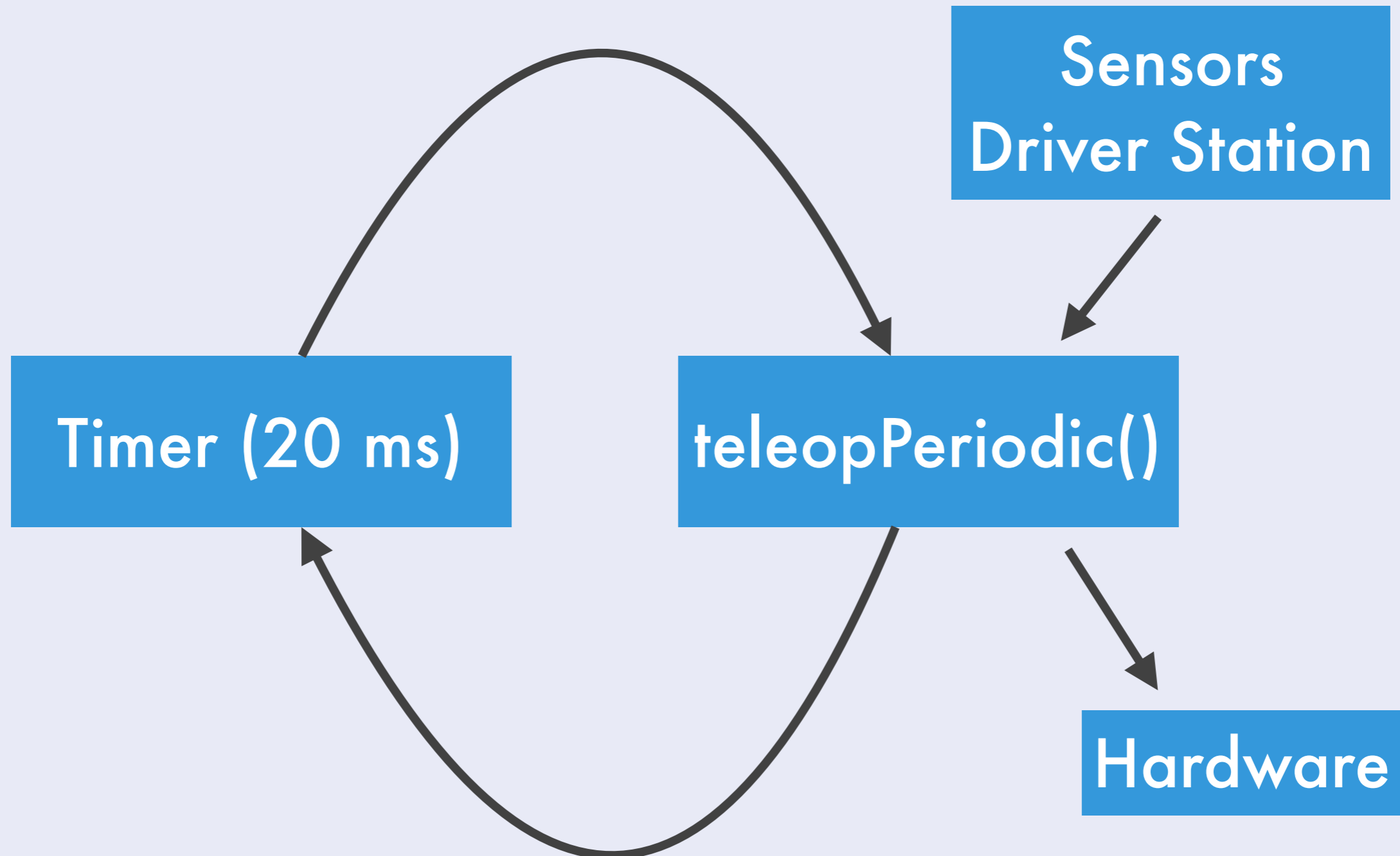
What Makes Robots Different?

- Iterative / Periodic Execution
- Timely Execution
- Hardware Control

Iterative Code

- Code runs continuously
 - Reads inputs and responds continuously
- Each input/output cycle repeats at a constant interval

Iterative Code



Getting a Solenoid

```
Solenoid arms = new Solenoid(id);  
arms.set(true); // arms are out  
arms.set(false); // arms are in
```

Getting a Joystick

```
// Get the joystick at port 1  
Joystick operatorJoystick = new Joystick(1);  
// Check if button 1 is pressed  
operatorJoystick.getRawButton(1);
```

More with Joysticks

```
class Joystick {  
    double getX();  
    double getY();  
    double getZ();  
    boolean getRawButton();  
}
```

Control the Arms!

- There is one solenoid that controls both arms at port 3
- In *teleopPeriodic*, set the solenoid to **true** if the button is held and **false** if it is not