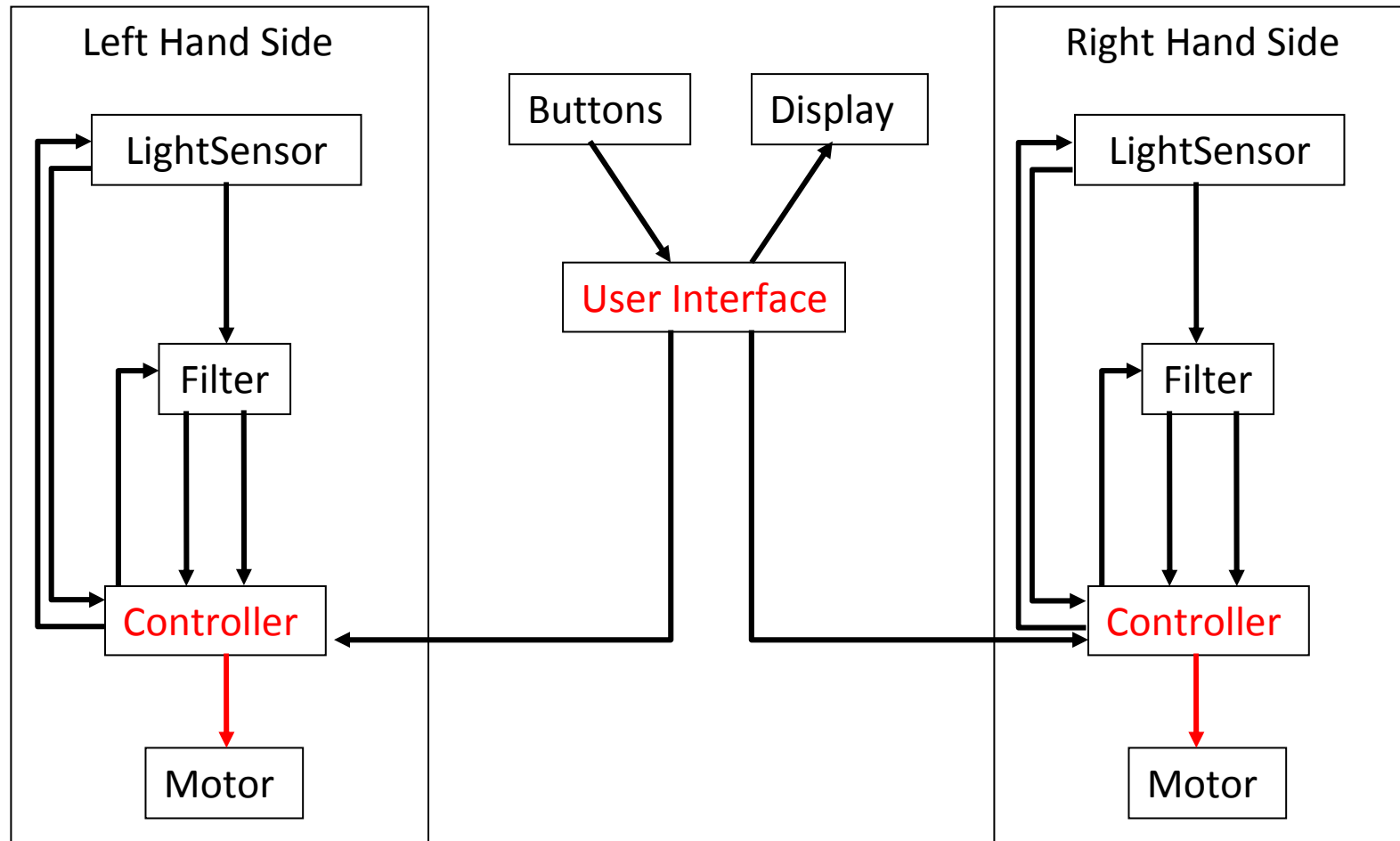# Line Following Robot Processes

Bluetooth Connected Robot

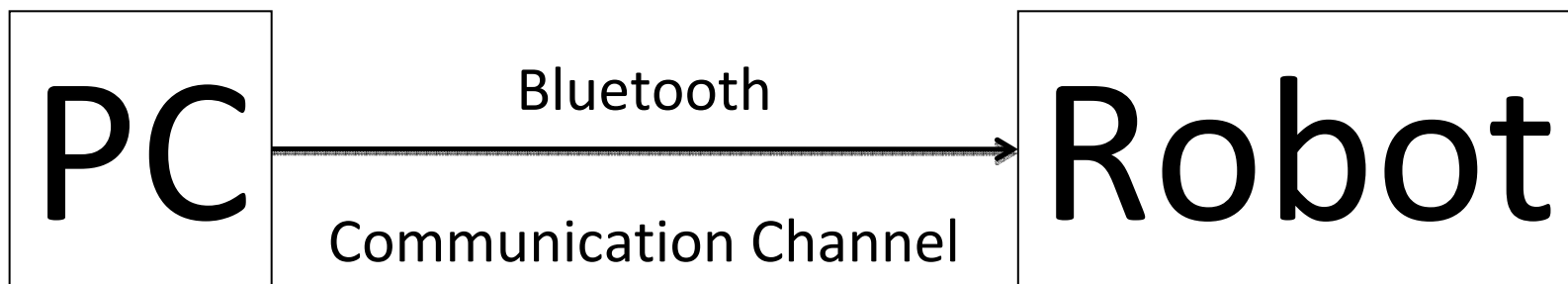PC has a user interface that sends commands to the robot using a Bluetooth connection

Robot responds to commands from the User Interface to adjust the speed of the motors

Each wheel can be controlled independently from 10 to 100% power
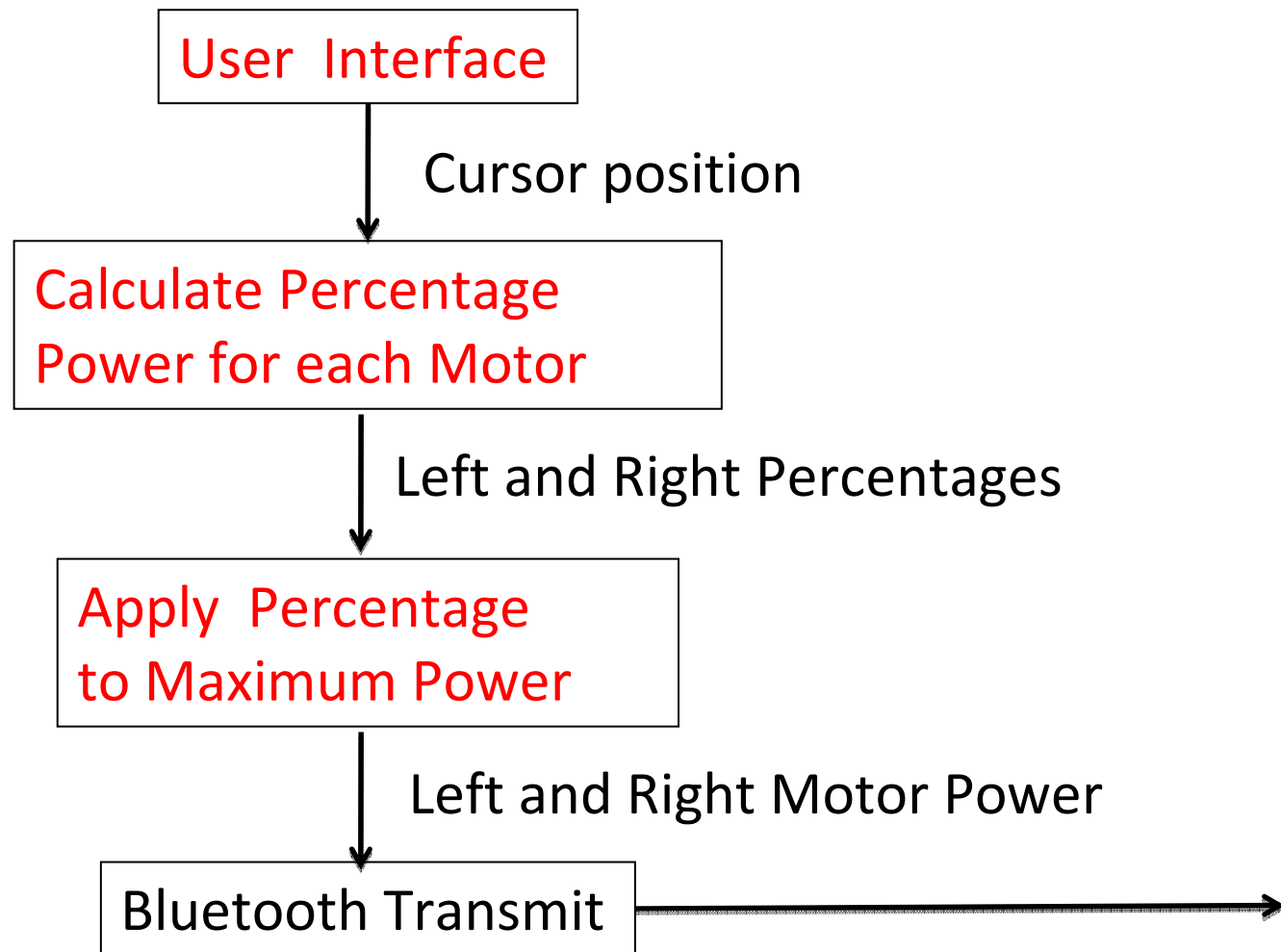
PC to Robot Communication

PC and Robot are essentially processes running in parallel

They use the Bluetooth connection to pass messages between each other

| PC | Bluetooth ———————→ Communication Channel | Robot |

PC User Interface Processes

User Interface

Cursor position

Calculate Percentage
Power for each Motor

Left and Right Percentages

Apply Percentage
to Maximum Power

Left and Right Motor Power

Bluetooth Transmit

Robot Processes

Left Motor

Right Motor

Left Motor   Power

Right   Motor Power

Distribute Motor Power

Left and Right Motor Power

Bluetooth Receive