

```
do forever {  
  wait for the sensor to be tripped;  
  turn on power to the door motor;  
  wait for a signal that indicates the  
    door is open;  
  wait for the sensor to reset;  
  delay ten seconds;  
  turn off power to the door motor;  
}
```

Figure 4.5 Example of the steps a microcontroller performs. In most cases, microcontrollers are dedicated to trivial control tasks.