# **Infrared Controlled Buggy**

## **Design Brief**

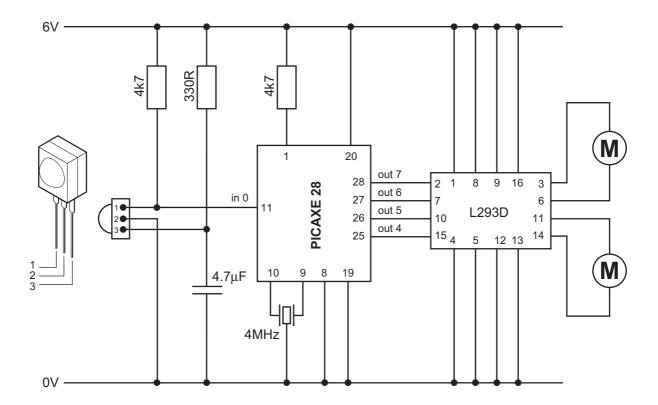
Design a remote controlled vehicle that can follow certain preset manoeuvres when triggered.

## **Circuit Explanation**

This circuit makes use of the infrared detection capabilities of the PICAXE-28 microcontroller. The two motors of the buggy are controlled via a L293D motor driver chip to give the buggy full forward-reverse motion control.

### **Program Explanation**

The program waits for an input from the infrared controller via the 'infrain' command. Then, depending on the button that was pressed on the transmitter, a different sequence of movement events is followed.



### **Program Listing**

```
' Infrared Controlled Buggy
' For PICAXE-28
' main loop - get an infra signal
' and then process according to key
main: infrain
     if infra = 1 then do1
     if infra = 2 then do2
     if infra = 3 then do3
     if infra = 4 then do4
     goto main
'action number 1
do1:
     for b0 = 1 to 4
        let pins = %01010000
        pause 3000
        let pins = %01100000
        pause 1000
     next b0
     goto main
'action number 2
do2:
     for b0 = 1 to 4
        let pins = %01010000
        pause 3000
        let pins = %10010000
        pause 1000
     next b0
     goto main
'action number 3
do3:
     let pins = %01010000
     pause 3000
     let pins = %10100000
     pause 3000
     goto main
'action number 4
do4:
     for b0 = 1 to 6
       let pins = %01010000
        pause 3000
        let pins = %10100000
        pause 1000
     next b0
     goto main
```

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