Left Motor = LM = 7 = 0b0111

Right Motor = RM = 7 = 0b0111

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
| LM | LM | LM | LM | RM | RM | RM | RM |
| 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |

Compression Algorithm:

LM<<4 + RM = 7\*2\*2\*2\*2 + 7 = 119

Control Byte = 119

Value Received from Serial = 119

119 = 0b01110111

leftMotor = (0b0111011 & 0b1111000) >> 4

= 0b01110000 >> 4

= 0b0111 = 7

rightMotor = 0b01110111 & 0b00001111

= 0b00000111 = 7

leftMotor = 7 rightMotor = 7

|  |  |  |
| --- | --- | --- |
| https://lh4.googleusercontent.com/kjOkvL8AEckcqXP9rOJ2mccEXzCMzlIPAqgybagBoVqb6k-bSws4jrYOSd_nlMxJSrgaIs7i_b-a8SOAm8tMY-GoiCJdFDqSvYceJ3m0hgBdtg28P4DAx-1c47HCNjXtKvYgUf06KvA  Left | https://lh4.googleusercontent.com/kjOkvL8AEckcqXP9rOJ2mccEXzCMzlIPAqgybagBoVqb6k-bSws4jrYOSd_nlMxJSrgaIs7i_b-a8SOAm8tMY-GoiCJdFDqSvYceJ3m0hgBdtg28P4DAx-1c47HCNjXtKvYgUf06KvA  Forward | https://lh4.googleusercontent.com/kjOkvL8AEckcqXP9rOJ2mccEXzCMzlIPAqgybagBoVqb6k-bSws4jrYOSd_nlMxJSrgaIs7i_b-a8SOAm8tMY-GoiCJdFDqSvYceJ3m0hgBdtg28P4DAx-1c47HCNjXtKvYgUf06KvA  Right |

(0, 320)

(0, 200)

(0, 120)

(0, 0)