

# ROBÔCIN

#### CONSTRUINDO

- REQUISITOS
  - o TAMANHO
    - CUBO DE 7,5 CM
  - FUNCIONALIDADES
    - MOVIMENTAR
    - RECEBER DADOS





## **MATERIAIS**

















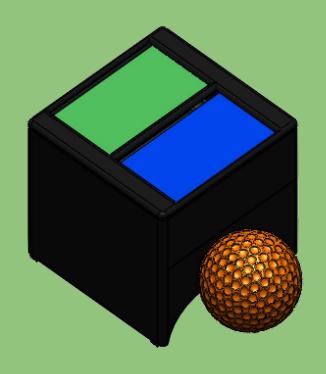


#### **PLANEJAMENTO**

- ORGANIZAÇÃO x TAMANHO
- CUSTOXQUALIDADE
- POTÊNCIA x VELOCIDADE
- O VIDA ÚTIL X EFICIÊNCIA



## PLANEJAMENTO





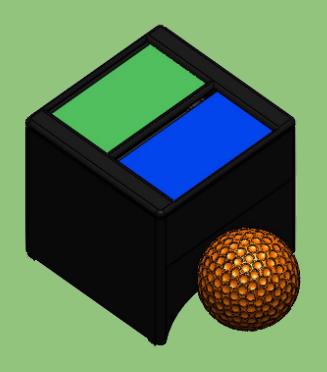


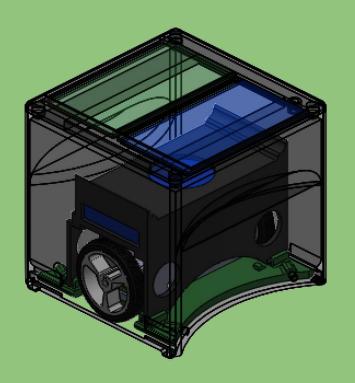
## **MATERIAIS**

Spark Fun				
Item	Preço	Link	Quantidade	Total
xBee	US \$22,95	https://www.spar	1	US \$22,95
LED RGB SMD (com 10)	US \$4,95	https://www.spar	0,2	US \$0,99
Xbee Socket	US \$1,00	https://www.spar	2	US \$2,00
Magnetic ring	US \$0,95	https://www.spar	10	US \$9,50
Cristal 16mHz	US \$0,95	https://www.spar	1	US \$0,95
AtMega328 SMD	US \$4,25	https://www.spar	1	US \$4,25
6-pin Male Header 90 graus	US \$0,95	https://www.spar	1	US \$0,95
Total:				US \$41,59



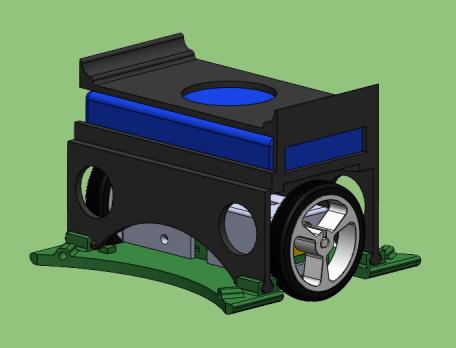
# MECÂNICA

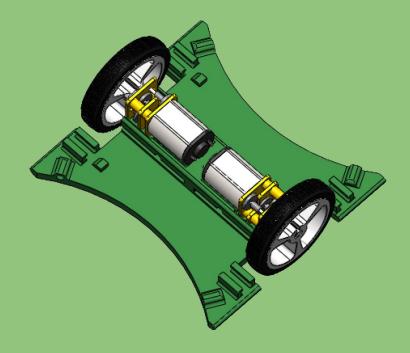




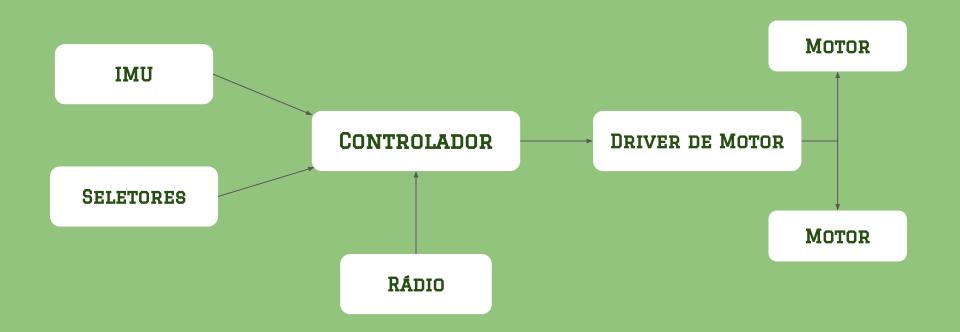


# MECÂNICA

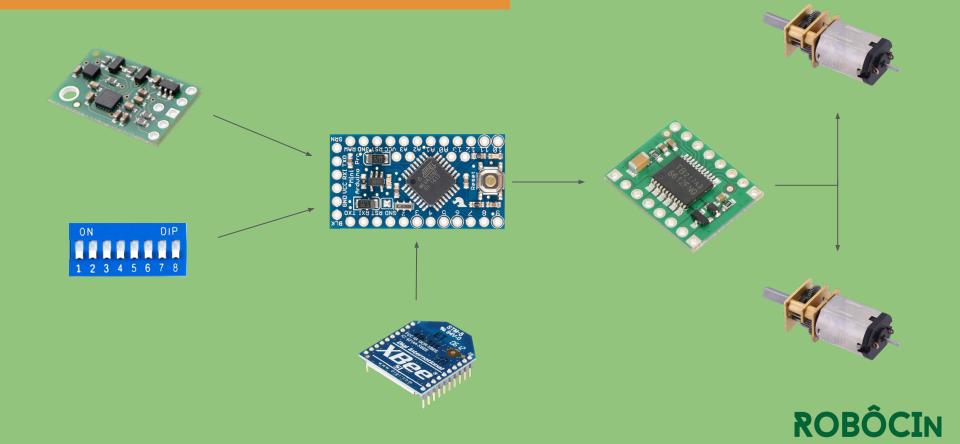


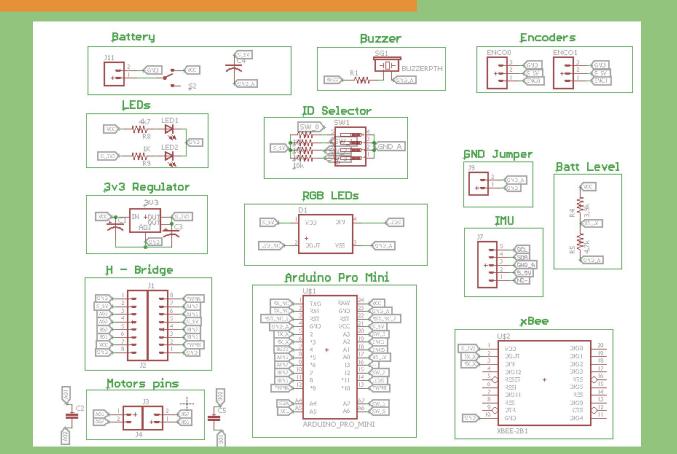




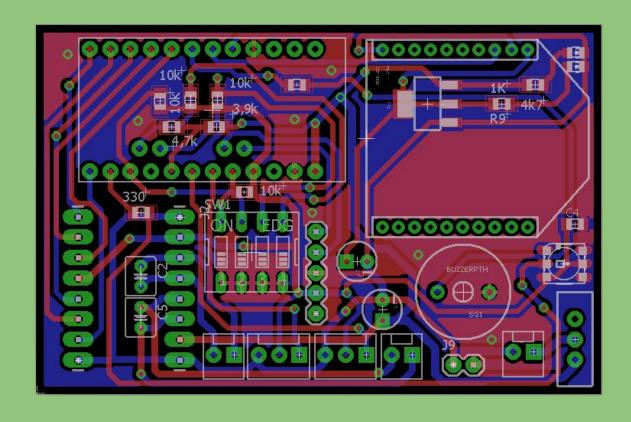








## **ROBÔCIN**







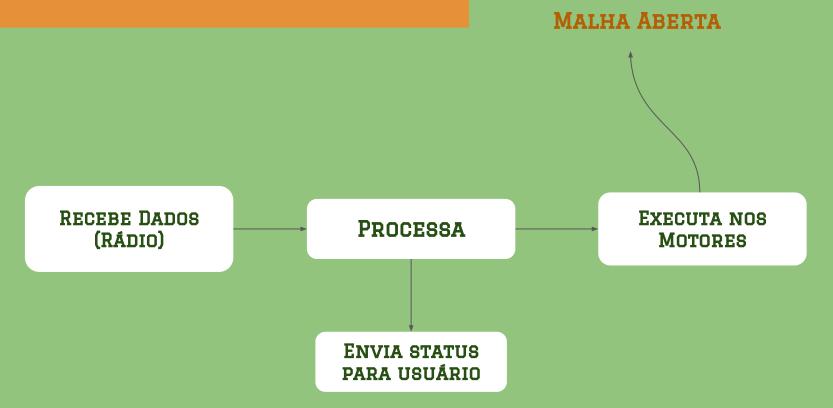


## SOFTWARE

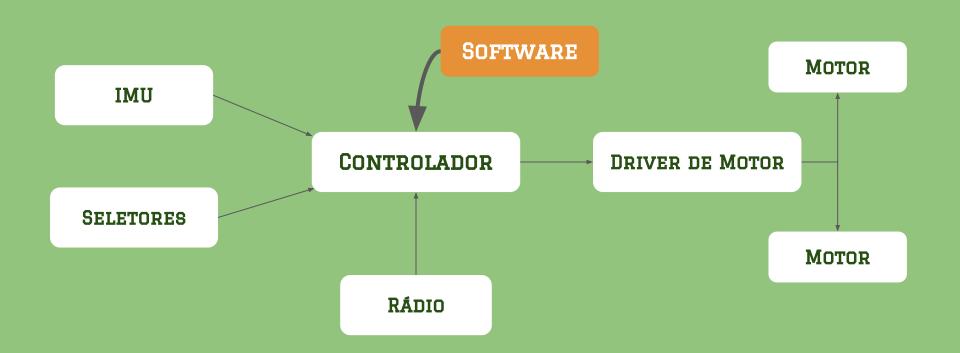




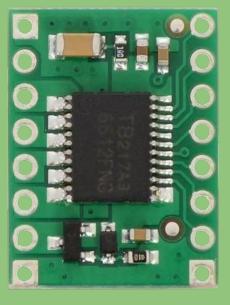
## SOFTWARE











PWMA AIN2 AIN1

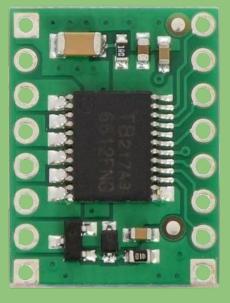
BIN1 BIN2 PWMB VELOCIDADE (0 - 100)

**SENTIDO (0 - 1)** 

**SENTIDO (1 - 0)** 







PWMA AIN2 AIN1

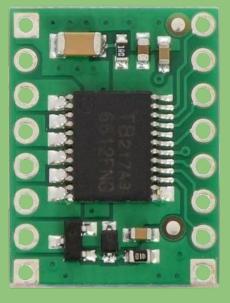
BIN1 BIN2 PWMB VELOCIDADE (50)

SENTIDO (0)

SENTIDO (1)







PWMA AIN2 AIN1

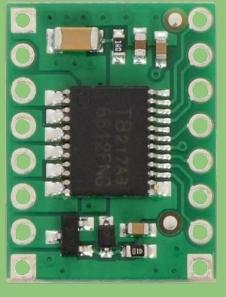
BIN1 BIN2 PWMB VELOCIDADE (50)

SENTIDO (1)

SENTIDO (0)







PWMA AIN2 AIN1

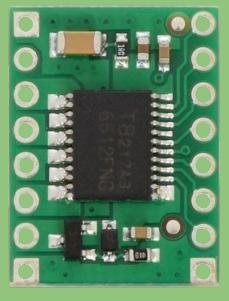
BIN1 BIN2 PWMB VELOCIDADE (0)

SENTIDO (1)

SENTIDO (0)







PWMA AIN2 AIN1

BIN1 BIN2 PWMB VELOCIDADE (50)

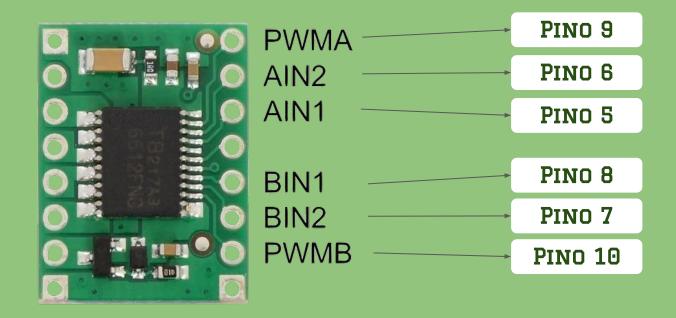
SENTIDO (0)

SENTIDO (0)





#### CODING



OBS: USAR FUNÇÃO SETPINVALUE(PINO, VALOR);

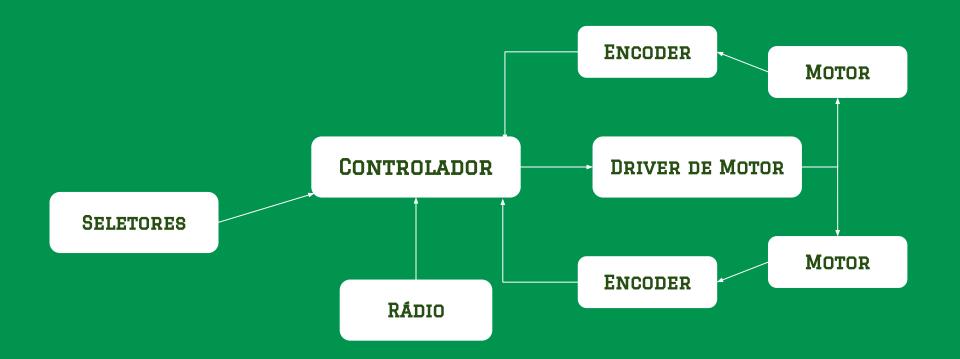


#### 2017...

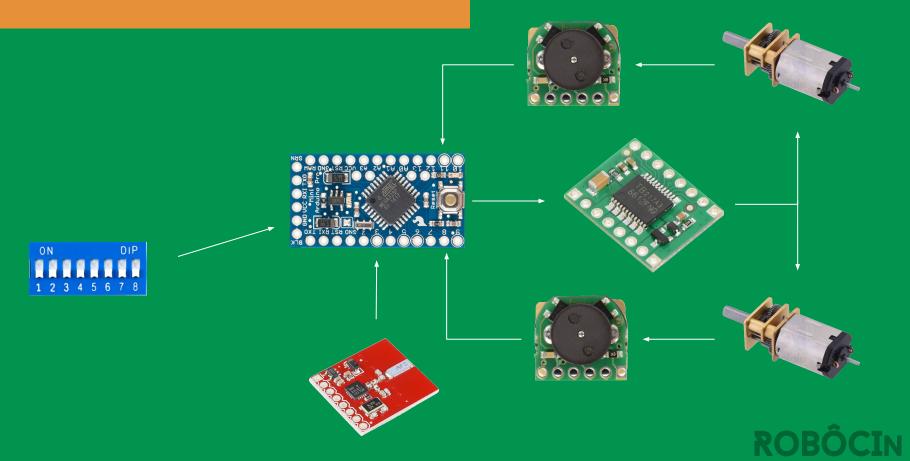
• MELHORAR CONFIABILIDADE DA COMUNICAÇÃO

- TRABALHAR COM MALHA FECHADA
  - UTILIZANDO TODOS SENSORES DISPONÍVEIS



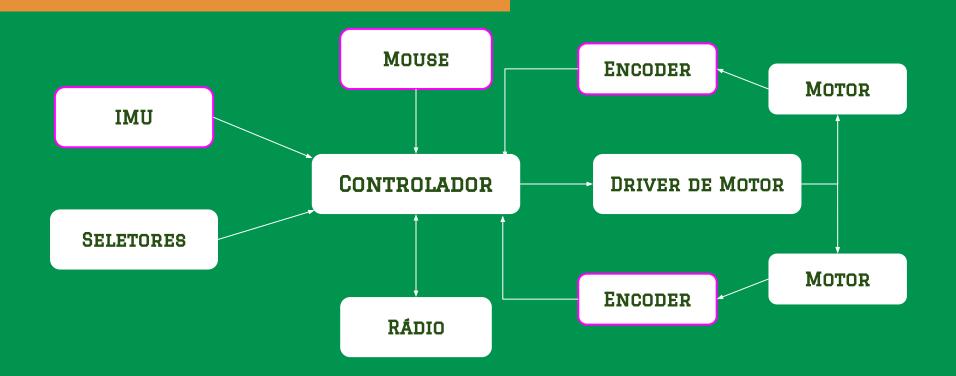




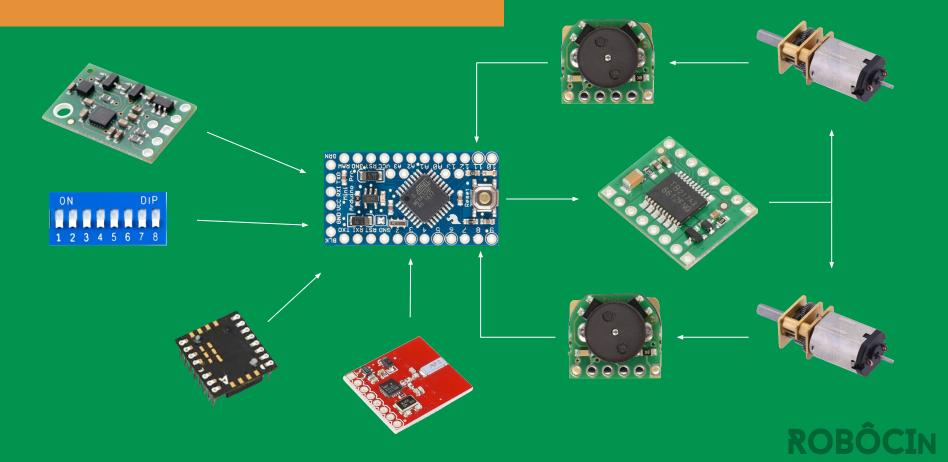


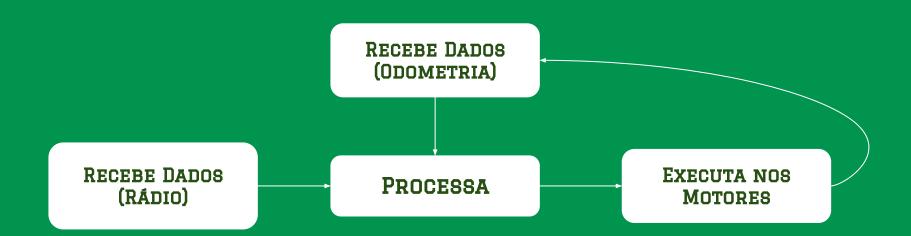














#### **OBRIGADO!**



WWW.CIN.UFPE.BR/~ROBOCIN

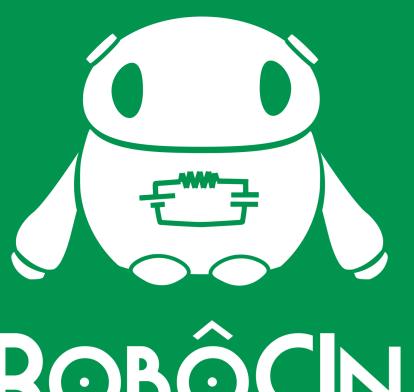


WWW.FACEBOOK.COM/ROBOCIN



WWW.INSTAGRAM.COM/ROBOCINUFPE





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