FONTE DE ALIMENTAÇÃO

U1
+12V
D1 1N4004
IC3 LM7805
VI VO
GND
C3 100uF/25V
C4 100nF/25V
C6 100nF/25V
C8 10uF/25V
+5V
R4 1kR
LED9
GND

REGULADOR DE TENSÃO (3V3)
+5V
LD1086
VI VO
GND
+3V3
C1 100nF/25V
C2 100nF/25V
GND

JUMPERS
+5V(TIVA_BLP)
+5V
JP1
+3V3(TIVA_BLP)
+3V3
JP2

PONTE H
IC2 L293D
PC5_PB7 1 1-2EN   VCC1 16 +5V
PC6_PB14 2 1A   4A   15 PD3_PA9
M1   3 1Y   4Y   14 M4
GND   4 GND1   GND3 13 GND
         5 GND2   GND4 12
M2   6 2Y   3Y   11 M3
PC7_PB15 7 2A   3A   10 PD2_PA8
+12V   8 VCC2   3-4EN 9   PC5_PB7

+12V
P2
M1 1
M2 2
M3 3
M4 4
5
6
GND

+12V C5 10uF/25V
+12V C7 100nF/25V
+5V C9 100nF/25V
GND

CONECTORES SERVO-MOTOR
+5V
PC5_PB7
SERVO
P1
1
2
3
GND

CHAVES
+3V3 R1 10kR SW1
PF4_PB8
+3V3 R3 10kR SW2
PF0_PB9
GND

LEDS
PB7_PA7
PB6_PA6
PB5_PA5
PB4_PA4
PB3_PA3
PB2_PA2
PB1_PA1
PB0_PA0
LED8 LED7 LED6 LED5 LED4 LED3 LED2 LED1
T1 BC337
GND
PA4_PB5 R2 4k7R
1kR RN1

TIVA LAUNCHPAD
+3V3(TIVA_BLP)
+5V(TIVA_BLP)
M1
TIVA J1/J3
1 3V3   5V 2
PB5_PA5 3 3_PB5   PD0_4 4
PB0_PA0 5 5_PB0   PD1_6 6
PB1_PA1 7 7_PB1   PD2_8 8
PE4_PB11 9 9_PE4 PD3_10 10 PD2_PA8
PE5_PB10 11 11_PE5 PE1_12 12 PD3_PA9
PB4_PA4 13 13_PB4 PE2_14 14 PE1_PB3
PA5_PA10 15 15_PA5 PE3_16 16 PE2_PB1
PA6_PA15 17 17_PA6 PF1_20 18 PE3_PB0
19 19_PA7   20 PF1_PC13
GND

TIVA J4/J2
PF2 21 21_PF2   GND 22
PF3 23 23_PF3   PB2_24 24 PB2_PA2
PB3_PA3 25 25_PB3 PE0_26 26 PE0_PB4
PC4_PB6 27 27_PC4 PF0_28 28 PF0_PB9
PC5_PB7 29 29_PC5 RESET 30
PC6_PB14 31 31_PC6 PB7_32 32 PB7_PA7
PC7_PB15 33 33_PC7 PB6_34 34 PB6_PA6
35 35_PD6   PA4_36 36 PA4_PB5
37 37_PD7   PA3_38 38 PA3_PB12
PF4_PB8 39 39_PF4 PA2_40 40 PA2_PB13
TIVA
GND

BLUE PILL
M2
PA3_PB12 40 PB12   GND 20
PA2_PB13 39 PB13   GND 19 GND
PC6_PB14 38 PB14   3V3 18 +3V3(TIVA_BLP)
PC7_PB15 37 PB15   NRST 17
PD2_PA8 36 PA8   PB11 16 PE4_PB11
PD3_PA9 35 PA9   PB10 15 PE5_PB10
PA5_PA10 34 PA10   PB1 14 PE2_PB1
33 PA11   PB0 13 PE3_PB0
32 PA12   PA7 12 PB7_PA7
PA6_PA15 31 PA15   PA6 11 PB6_PA6
PF1_PB3 30 PB3   PA5 10 PB5_PA5
PE0_PB4 29 PB4   PA4 9   PB4_PA4
PA4_PB5 28 PB5   PA3 8   PB3_PA3
PC4_PB6 27 PB6   PA2 7   PB2_PA2
PC5_PB7 26 PB7   PA1 6   PB1_PA1
PF4_PB8 25 PB8   PA0 5   PB0_PA0
PF0_PB9 24 PB9   PC15 4
+5V(TIVA_BLP) 23 5V PC14 3
GND 22 GND   PC13 2 PF1_PC13
+3V3(TIVA_BLP) 21 3V3 VBAT 1 VBAT
BLUE_PILL

DISPLAYS DE 7 SEGMENTOS
PB0_PA0 R6 1kR A
PB1_PA1 R7 1kR B
PB2_PA2 R8 1kR C
PB3_PA3 R9 1kR D
PB4_PA4 R10 1kR E
PB5_PA5 R11 1kR F
PB6_PA6 R12 1kR G
PB7_PA7 R13 1kR DP
DIS1 HD-H103
DIS2 HD-H103
PA5_PA10 R14 4k7R
PA6_PA15 R15 4k7R
DISP1 T2 BC337
DISP2 T3 BC337
GND

SENSOR DE PRESSÃO
I2C - BMP280
+3V3 +3V3
R16 10kR R17 10kR
BMP280
+3V3
PE4_PB11
PE5_PB10
P5
GND

TRIMPOT
+3V3
POT2 10kR
S_PE3_PB0
GND

DISPLAY ALFANUMÉRICO
+5V R5 33R
LCD1
1 BL_A
2 BL_K
3 VSS
4 VDD
5 V0
PA2_PB13 6 RS
7 R/W
PA3_PB12 8 E
9 D0
10 D1
11 D2
12 D3
13 D4
PB4_PA4 14 D5
PB5_PA5 15 D6
PB6_PA6 16 D7
PB7_PA7 17 BL_A
18 BL_K
POT1 10kR
GND

Módulo WiFi ESP8266
+3V3 +3V3
C10 10uF/25V
C11 100nF/25V
P3
GND   1
TXD   2 PE4_PB11
GPIO2 3 PE0_PB4
CH_PD 4
GPIO0 5
RST   6 PE1_PB3
RXD   7 PE5_PB10
VDD   8
ESP8266
+3V3
GND

BLUETOOTH HC-05/06
+5V
1
2
3
PF4_PB11 4
PF5_PB10 5
6
P4
GND

SENSOR DE TEMPERATURA
+5V LM35
VI VO
GND
PE2_PB1

SENSOR ULTRASSONICO
+5V
PF1_PC13
PC4_PB6
P6
GND

Equipe:
Amauri Amorin Assef
Guilherme Luiz Moritz
Delvanei Gomes Bandeira Junior
Guilherme de Santi Peron
Maurício dos Santos Kaster
Murilo Paulo de Oliveira
Cáled Tarique Pereira

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