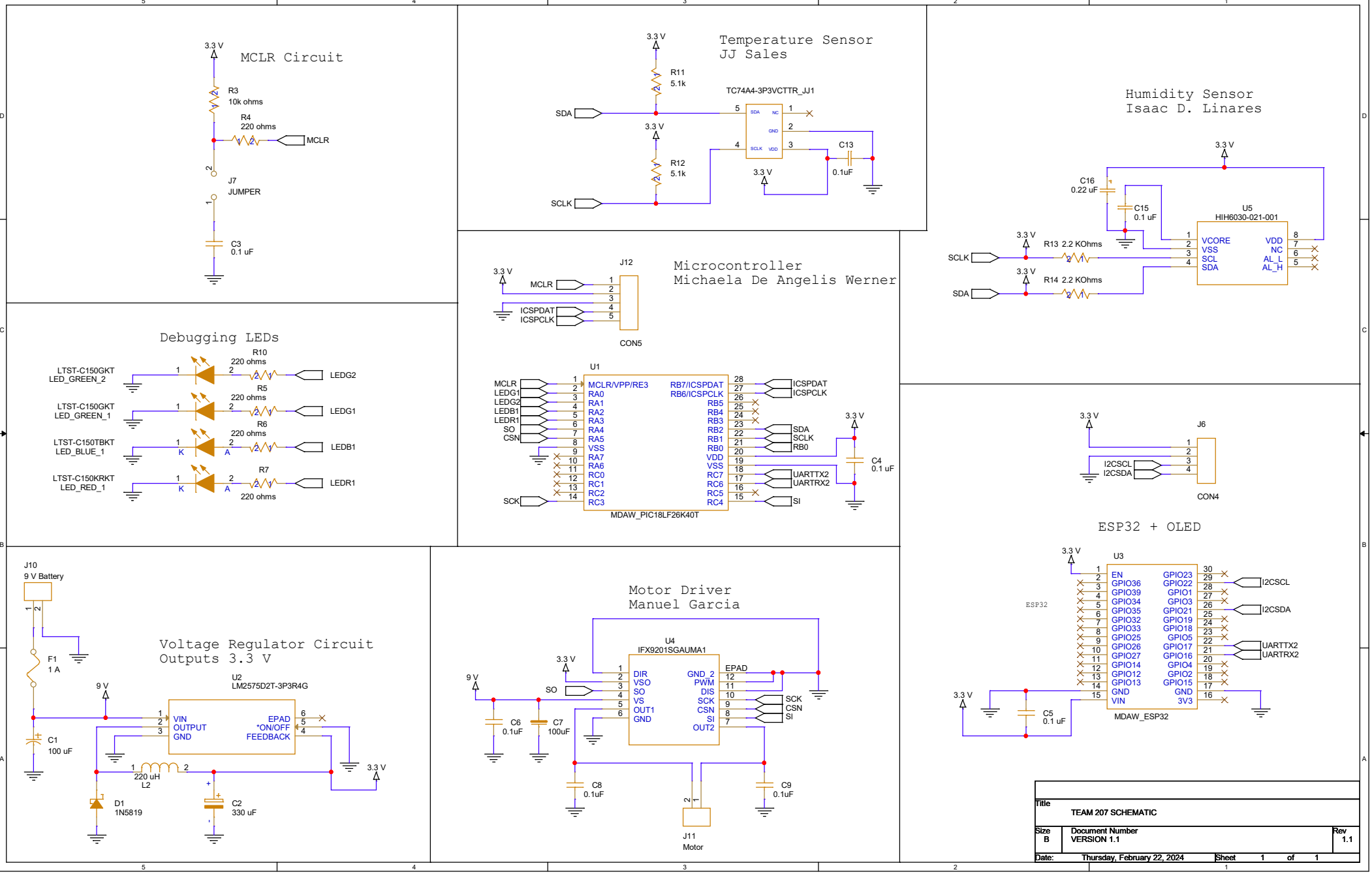
MCLR Circuit
3.3 V
R3
10k ohms
R4
220 ohms
MCLR
J7
JUMPER
C3
0.1 uF
Temperature Sensor
JJ Sales
TC74A4-3P3VCTTR_JJ1
R11
5.1k
R12
5.1k
SDA
SCLK
C13
0.1uF
Humidity Sensor
Isaac D. Linares
U5
HIH6030-021-001
C16
0.22 uF
C15
0.1 uF
R13 2.2 KOhms
R14 2.2 KOhms
VCORE
VSS
SCL
SDA
VDD
NC
AL_L
AL_H
Debugging LEDs
LTST-C150GKT
LED_GREEN_2
LTST-C150GKT
LED_GREEN_1
LTST-C150TBKT
LED_BLUE_1
LTST-C150KRKT
LED_RED_1
R10
220 ohms
R5
220 ohms
R6
220 ohms
R7
220 ohms
LEDG2
LEDG1
LEDB1
LEDR1
Microcontroller
Michaela De Angelis Werner
J12
CON5
ICSPDAT
ICSPCLK
U1
MDAW_PIC18LF26K40T
MCLR/VPP/RE3
RB7/ICSPDAT
RB6/ICSPCLK
UARTTX2
UARTRX2
SI
C4
0.1 uF
J6
CON4
I2CSCL
I2CSDA
ESP32 + OLED
U3
MDAW_ESP32
ESP32
GPIO23
GPIO22
GPIO1
GPIO3
GPIO21
GPIO19
GPIO18
GPIO5
GPIO17
GPIO16
GPIO4
GPIO2
GPIO15
GND
3V3
EN
GND
VIN
C5
0.1 uF
J10
9 V Battery
F1
1 A
C1
100 uF
Voltage Regulator Circuit
Outputs 3.3 V
U2
LM2575D2T-3P3R4G
VIN
OUTPUT
GND
EPAD
*ON/OFF
FEEDBACK
220 uH
L2
D1
1N5819
C2
330 uF
9 V
Motor Driver
Manuel Garcia
U4
IFX9201SGAUMA1
DIR
VSO
SO
VS
OUT1
GND
GND_2
PWM
DIS
SCK
CSN
SI
OUT2
EPAD
C6
0.1uF
C7
100uF
C8
0.1uF
C9
0.1uF
J11
Motor
Title
TEAM 207 SCHEMATIC
Size
B
Document Number
VERSION 1.1
Rev
1.1
Date:
Thursday, February 22, 2024
Sheet
1
of
1