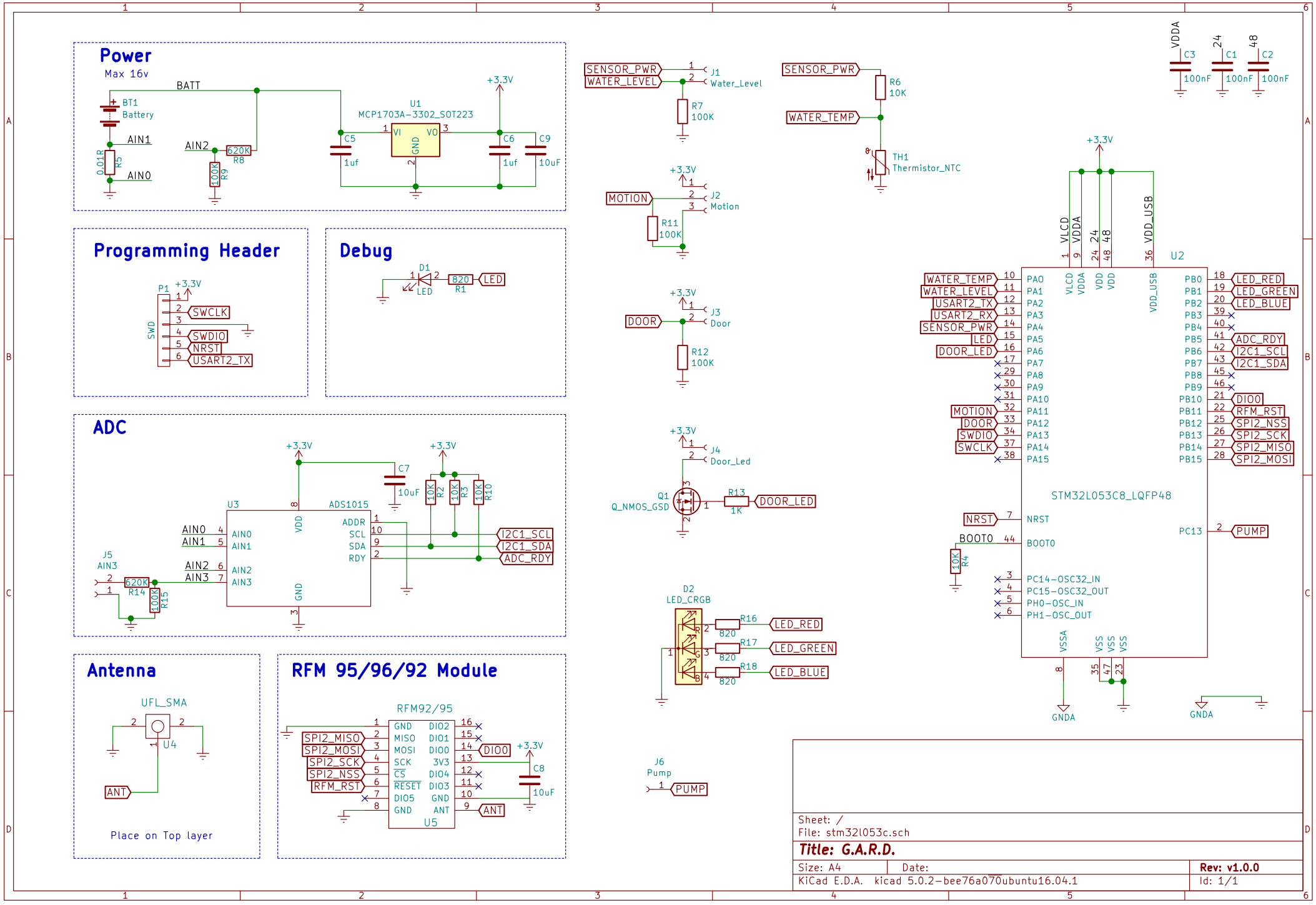
Power
Max 16v
BATT
BT1
Battery
AIN1
AIN0
0.01R
R5
AIN2
620K
R8
100K
R9
U1
MCP1703A-3302_SOT223
VI
VO
GND
C5
1uf
C6
1uf
C9
10uF
+3.3V
Programming Header
P1
SWD
SWCLK
SWDIO
NRST
USART2_TX
Debug
D1
LED
820
R1
ADC
U3
ADS1015
VDD
GND
ADDR
SCL
SDA
RDY
AIN0
AIN1
AIN2
AIN3
C7
10uF
10K
R2
R3
R10
I2C1_SCL
I2C1_SDA
ADC_RDY
J5
AIN3
620K
R14
100K
R15
Antenna
UFL_SMA
U4
ANT
Place on Top layer
RFM 95/96/92 Module
RFM92/95
GND
MISO
MOSI
SCK
CS
RESET
DIO5
DIO2
DIO1
DIO0
3V3
DIO4
DIO3
ANT
SPI2_MISO
SPI2_MOSI
SPI2_SCK
SPI2_NSS
RFM_RST
C8
10uF
U5
SENSOR_PWR
WATER_LEVEL
J1
Water_Level
R7
100K
MOTION
J2
Motion
R11
100K
DOOR
J3
Door
R12
100K
J4
Door_Led
Q1
Q_NMOS_GSD
R13
1K
DOOR_LED
D2
LED_CRGB
R16
R17
R18
820
LED_RED
LED_GREEN
LED_BLUE
J6
Pump
PUMP
WATER_TEMP
R6
10K
TH1
Thermistor_NTC
C3
C1
C2
100nF
VDDA
VLCD
VDD_USB
U2
STM32L053C8_LQFP48
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC13
NRST
BOOT0
R4
PC14-OSC32_IN
PC15-OSC32_OUT
PH0-OSC_IN
PH1-OSC_OUT
VSSA
VSS
GNDA
Sheet: /
File: stm32l053c.sch
Title: G.A.R.D.
Size: A4
Date:
Rev: v1.0.0
KiCad E.D.A. kicad 5.0.2-bee76a070ubuntu16.04.1
Id: 1/1