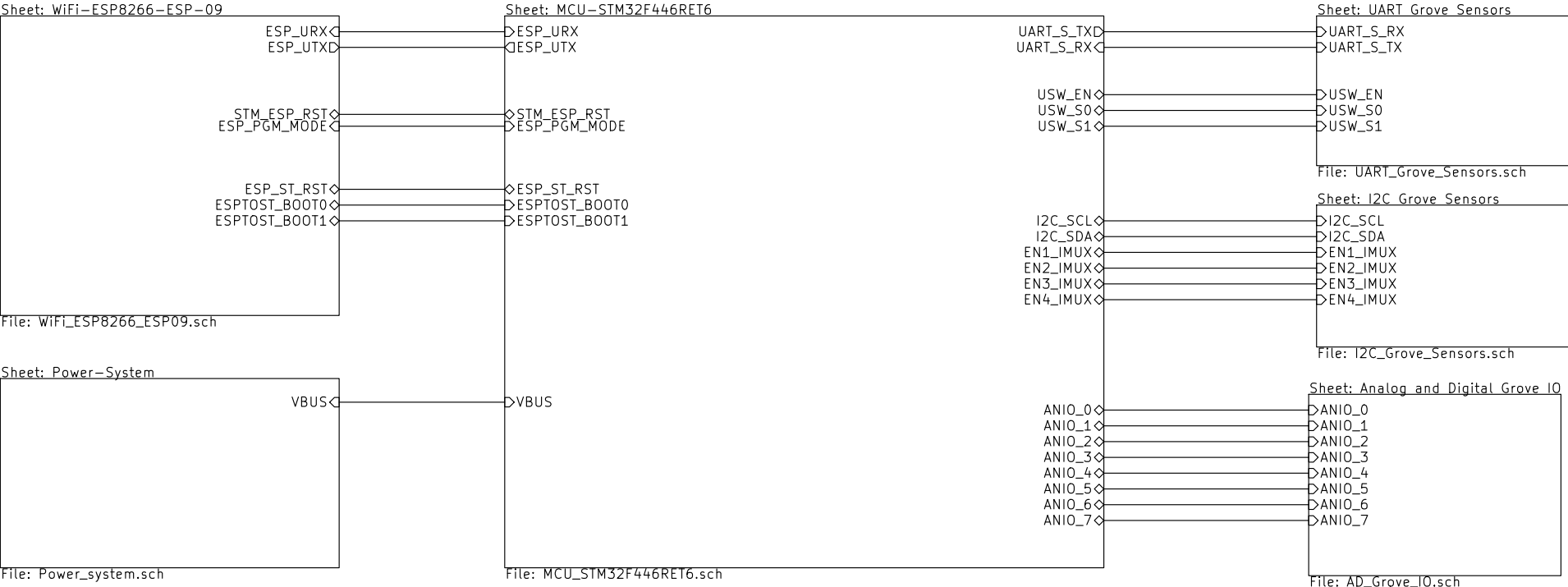
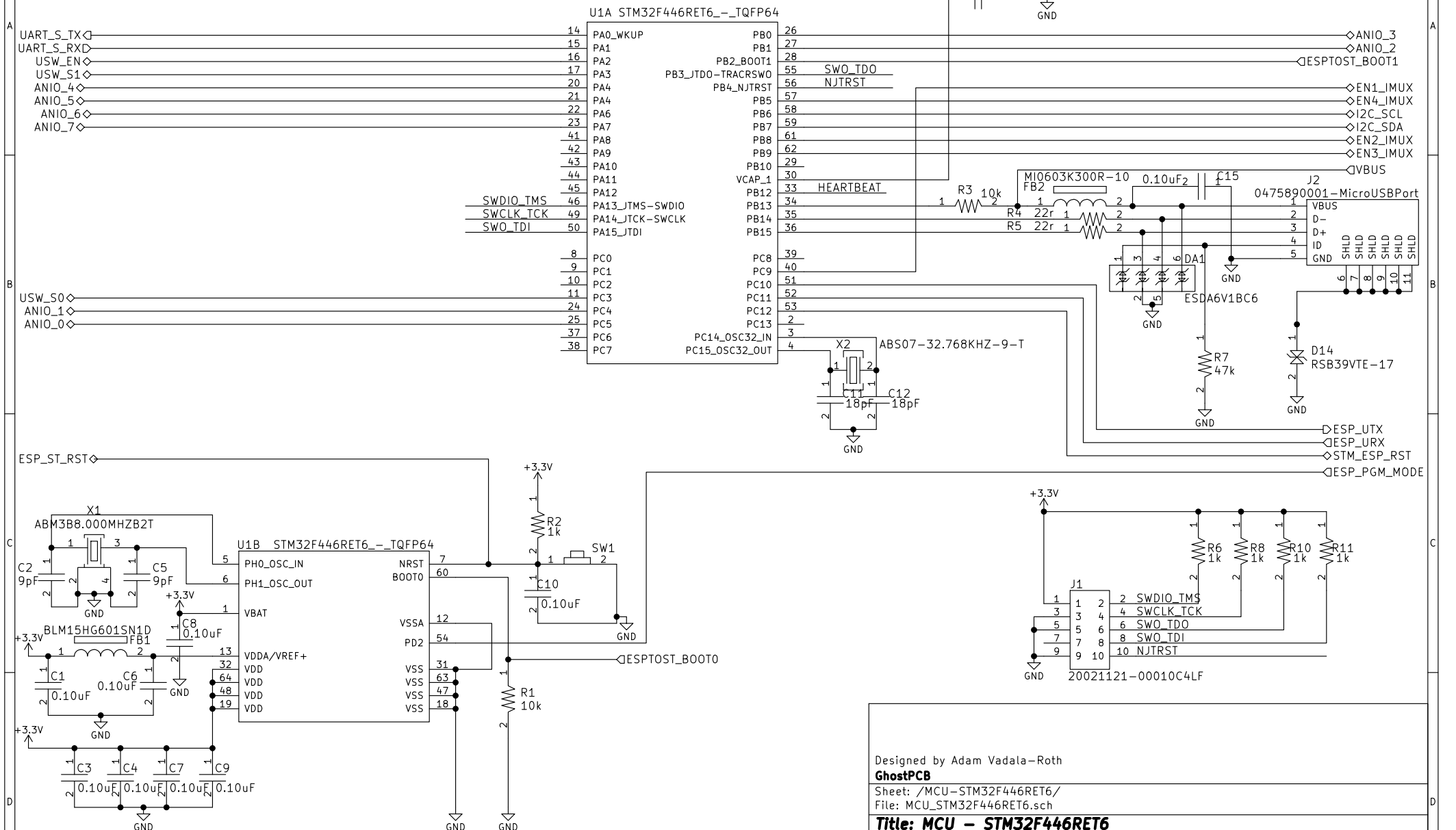


SunLeaf 0.2a System Overview



STM32F446RET6 Main MCU



Designed by Adam Vadala-Roth

GhostPCB

Sheet: /MCU-STM32F446RET6/

File: MCU-STM32F446RET6.sch

Title: MCU - STM32F446RET6

Size: A4 Date:

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Rev: Revision 0.2 Alpha

Id: 2/7

ESP-09 ESP8266 WiFi RF Module

The schematic diagram illustrates the internal circuitry of the ESP-09 module. Key components include:

- IC1 (ESP_09):** The central ESP8266 microcontroller.
- Resistors:** R12, R13, R9, R17, R15, R16, R14, R18, R19, R20, R21.
- Capacitors:** C17, C18.
- Switch:** SW2.
- Connector:** CONN_01X04.
- Antenna:** ANTENNA.

The diagram shows the connections for the module's pins, including GPIOs, TXD, RXD, RST, WIFLANT, VDD, CH_PD, and GND. It also shows the connections for the module's external pins, including ESP_PGM_MODE, ESP_ST_RST, ESPTOST_BOOT0, ESPTOST_BOOT1, ESP_URX, ESP_UTX, and STM_ESP_RST.

Designed by Adam Vadala-Roth

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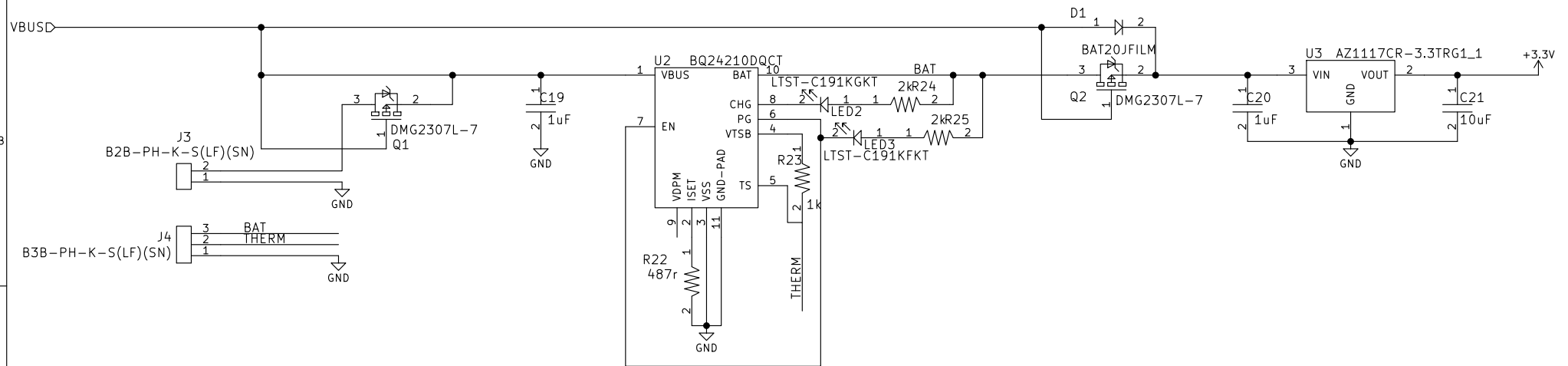
Sheet: /WiFi-ESP8266-ESP-09/
File: WiFi_ESP8266_ESP09.sch

Title: WiFi ESP8266 ESP-09 Module

Size: A4	Date:	Rev: Revision 0.2 Alpha
KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg		Id: 3/7

Id: 3/7

Battery Charge Controller and Power Supply



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Sheet: /Power-System/

File: Power_system.sch

Title: Power System - LDO & Solar Battery Charger

Size: A4

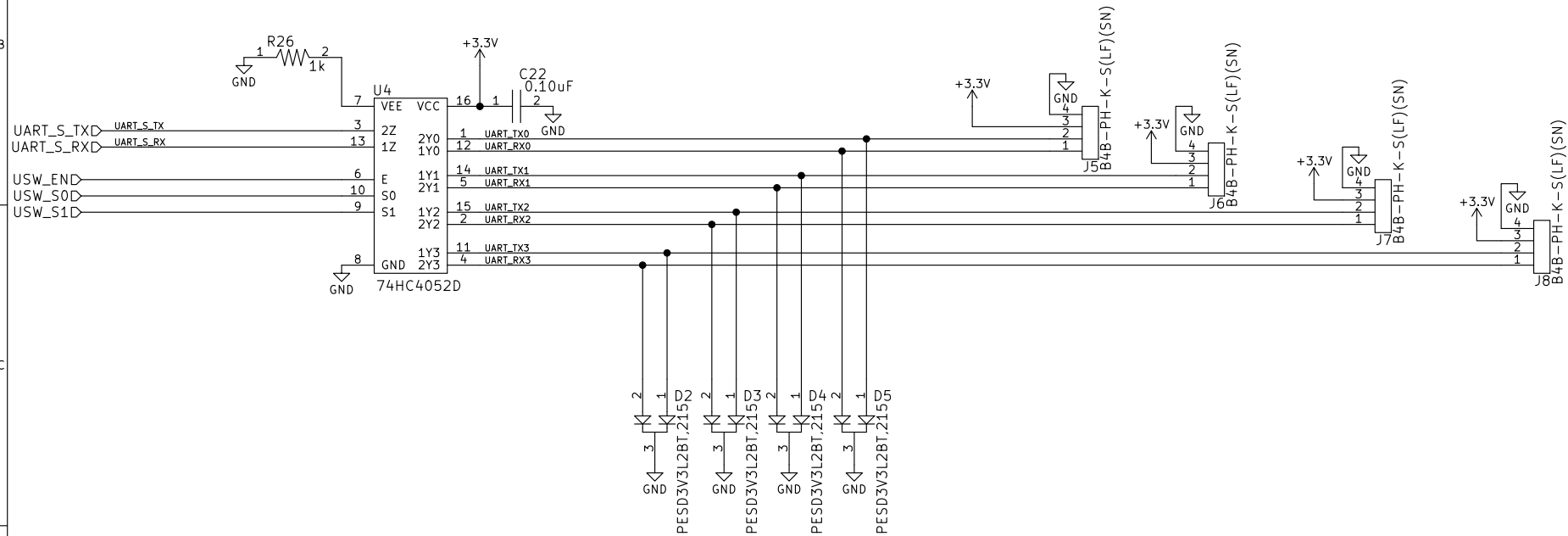
Date:

Rev: Revision 0.2 Alpha

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Id: 4/7

UART Grove Sensors



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Sheet: /UART Grove Sensors/

File: UART_Grove_Sensors.sch

Title: UART Grove Sensor Ports

Size: A4

Date:

KiCad E.D.A. kicad (2016-09-14 revision 83ed3c9)-makepkg

Rev: Revision 0.2 Alpha

Id: 5/7

I2C Grove Sensors

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 Sheet: /I2C Grove Sensors/
 File: I2C_Grove_Sensors.sch

Title: I2C Grove Sensor Ports		
Size: A4	Date:	Rev: Revision 0.2 A
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