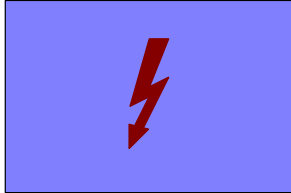




INA CONTROL & ALARM BOARD

Power

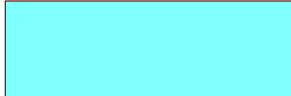
Power



File: power.kicad_sch

UART to USB

UART to USB



File: CP2102.kicad_sch

Relays

Relays 2

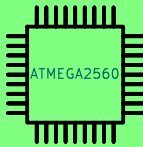
Relays 1



File: relays_2.kicad_sch

File: relays_1.kicad_sch

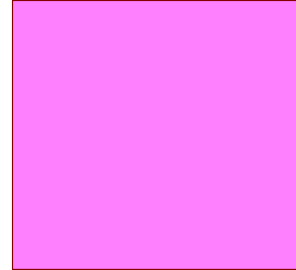
MCU



File: atmega2560.kicad_sch

Current Sensors

Current Sensors



File: current_sensors.kicad_sch

Fuel Measurement

Fuel Measurement



File: fuel_measurement.kicad_sch

Modbus

MAX485



File: max485.kicad_sch



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Sheet: /

File: HMI_Board_V2.kicad_sch

Title: Main

Size: A4

Date: 2023-05-16

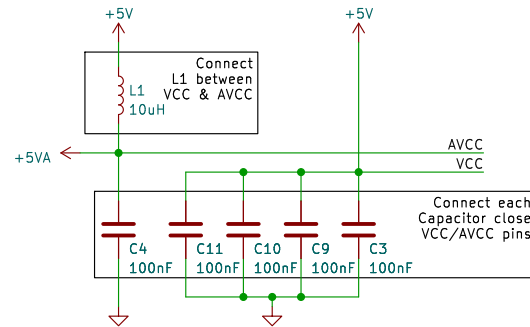
Rev: 2

KiCad E.D.A. kicad 7.0.1

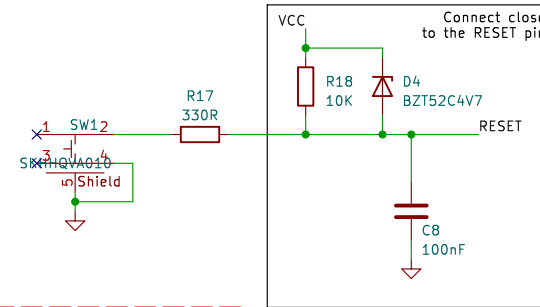
Id: 1/9

ATmega2560-16A

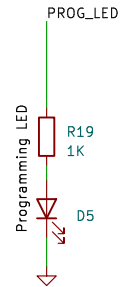
Power Decoupling



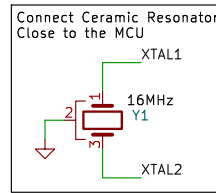
External RESET



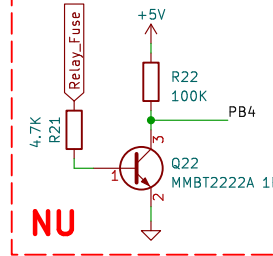
Programming LED



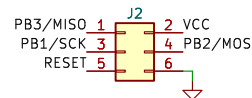
Ceramic Resonator



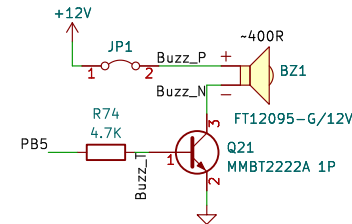
Relay Power Fuse Control



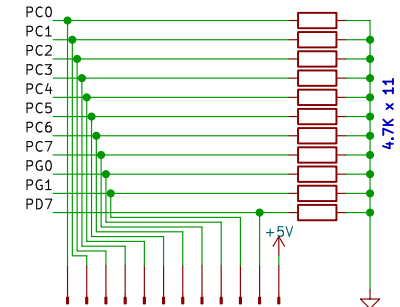
ISP Programmer



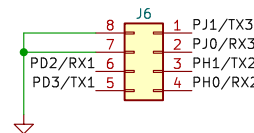
Buzzer



Input Surface Connectors



UART Connector



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Sheet: /ATMEGA2560/

File: atmega2560.kicad_sch

Title: MCU

Size: A4 Date: 2023-05-16

KiCad E.D.A. kicad 7.0.1

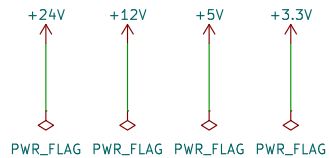
Rev: 2

Id: 1/9

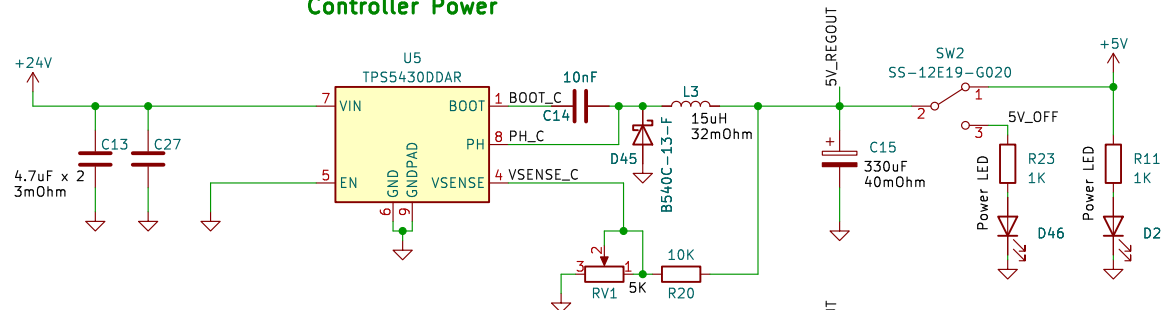


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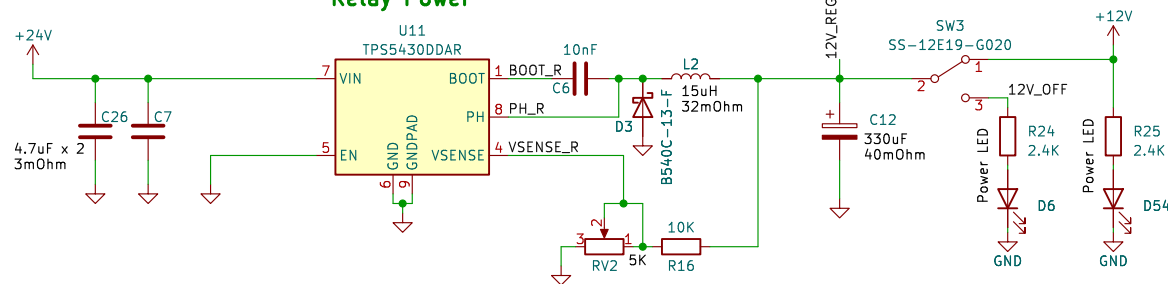
Power Flags



Controller Power



Relay Power



OES Maritime Systems Eng. Ltd. Sti.

Sheet: /Power/
File: power.kicad_sch

Title: Power

Size: A4 Date: 2023-05-16

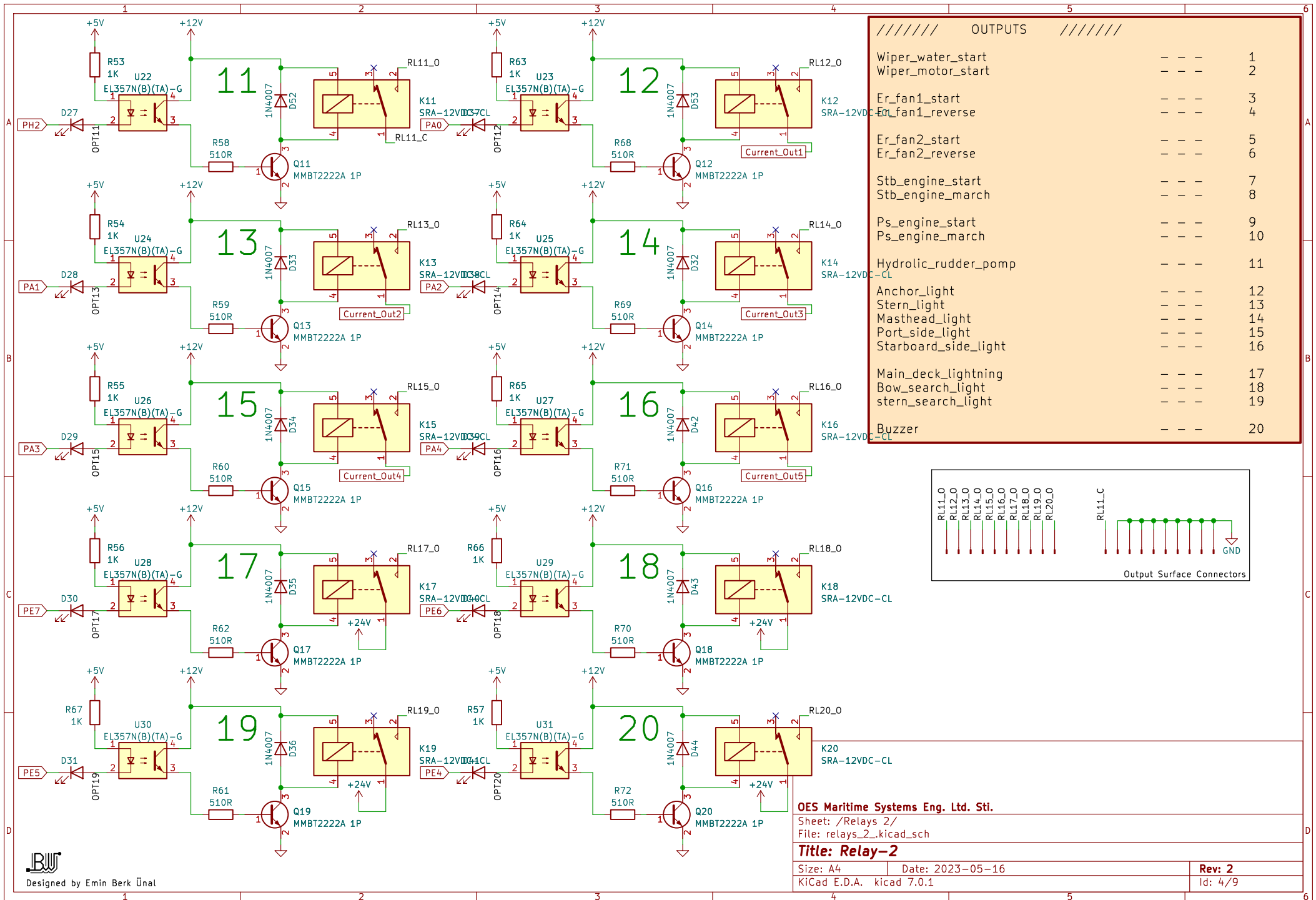
KiCad E.D.A. kicad 7.0.1

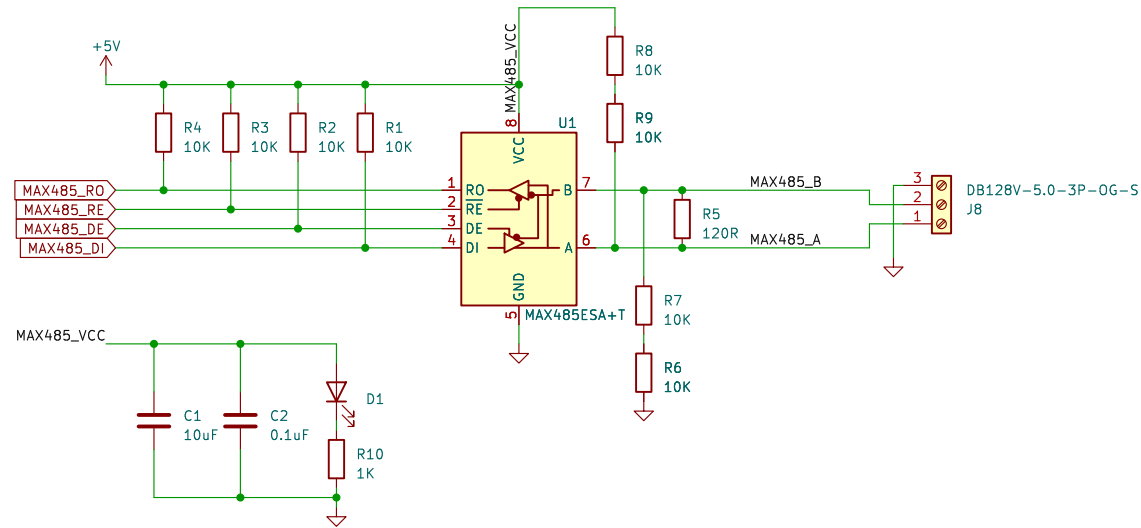
Rev: 2

Id: 2/9



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Sheet: /MAX485/

File: max485.kicad_sch

Title: RS485

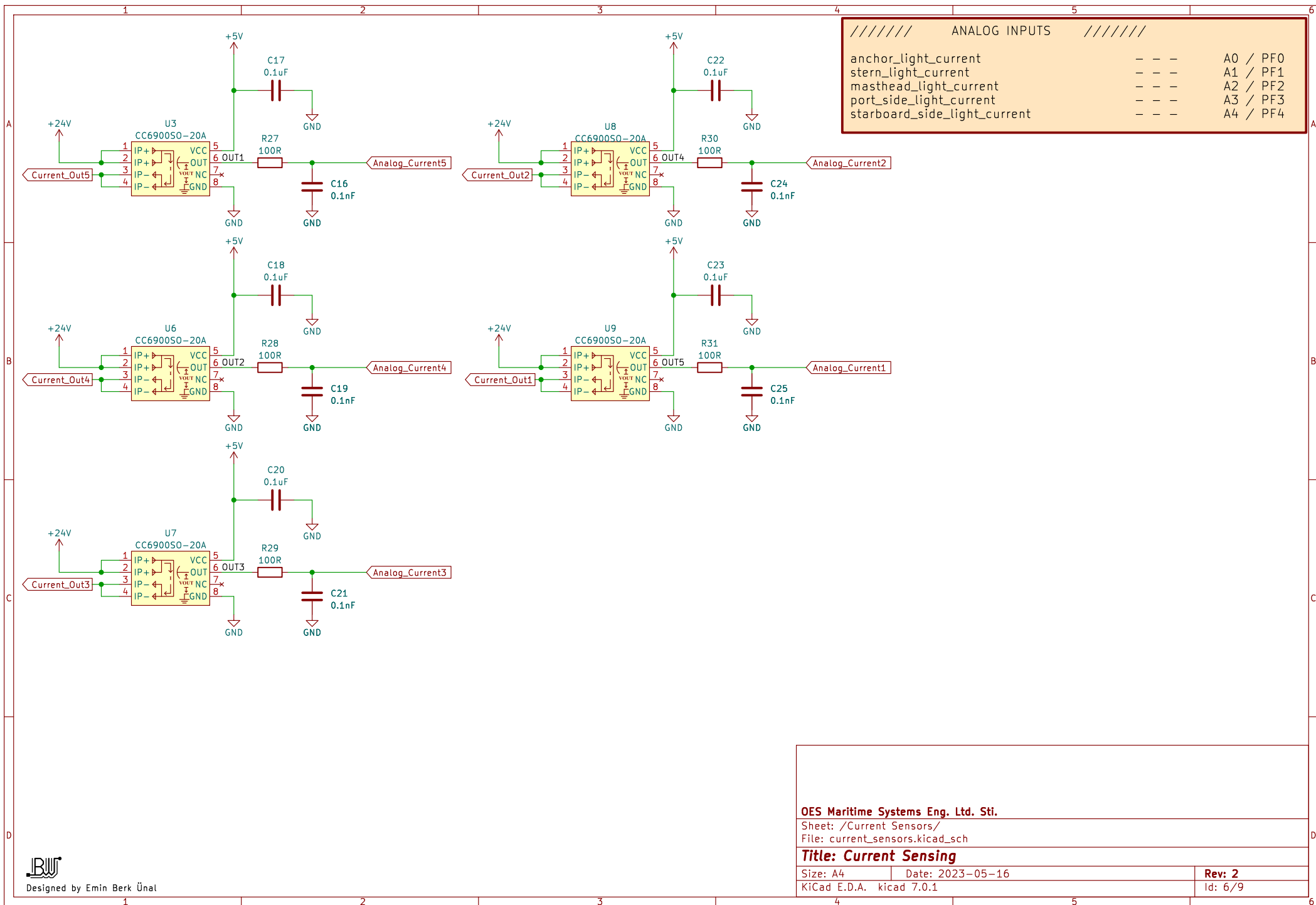
Size: A4

Date: 2023-05-16

Rev: 2

KiCad E.D.A. kicad 7.0.1

Id: 5/9



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OES Maritime Systems Eng. Ltd. Sti.

Sheet: /Current Sensors/
File: current_sensors.kicad_sch

Title: Current Sensing

Size: A4 Date: 2023-05-16

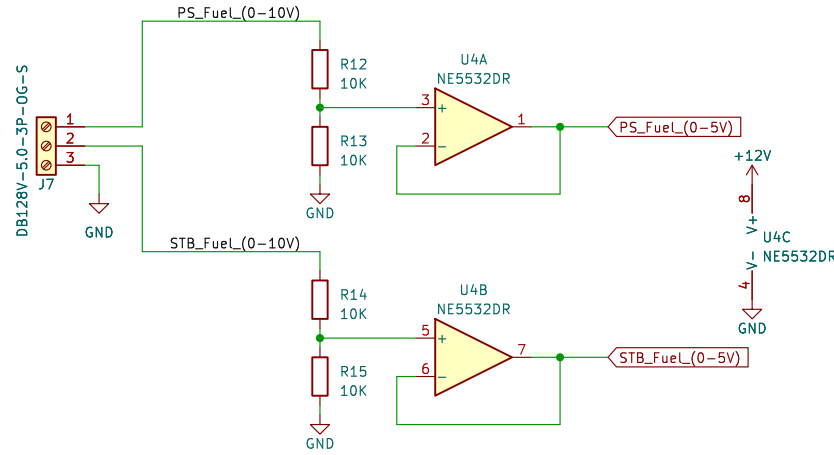
KiCad E.D.A. kicad 7.0.1

Rev: 2

Id: 6/9

//////// ANALOG INPUTS //////////

fuel_oil_ps_analog	- - -	A5 / PF5
fuel_oil_str_analog	- - -	A6 / PF6



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OES Maritime Systems Eng. Ltd. Sti.

Sheet: /Fuel Measurement/
File: fuel_measurement.kicad_sch

Title: Fuel Measurement

Size: A4 Date: 2023-05-16

KiCad E.D.A. kicad 7.0.1

Rev: 2

Id: 7/9

