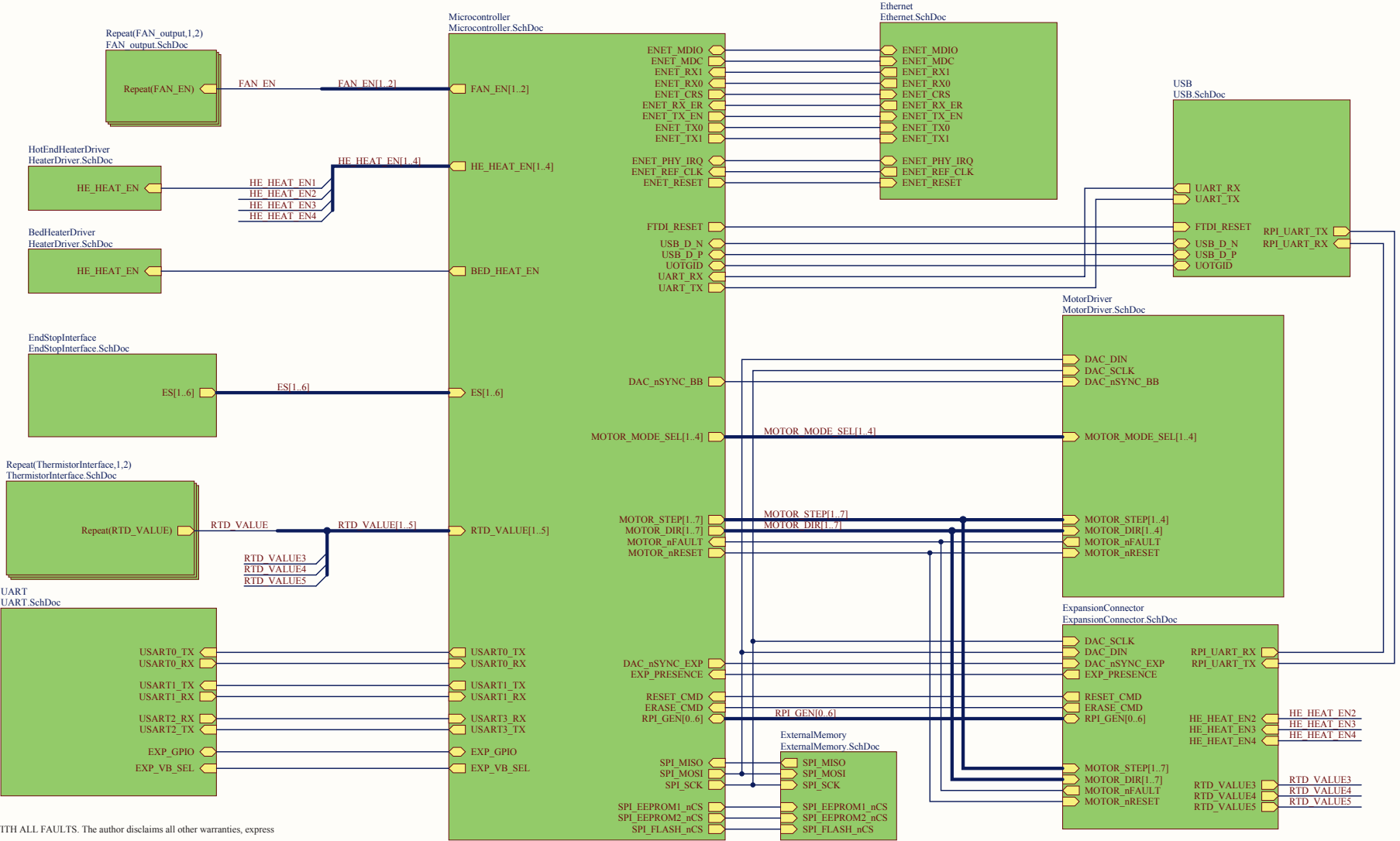


Alligator Board - 3D Printer Electronic

The new generation electronic for 3D printers



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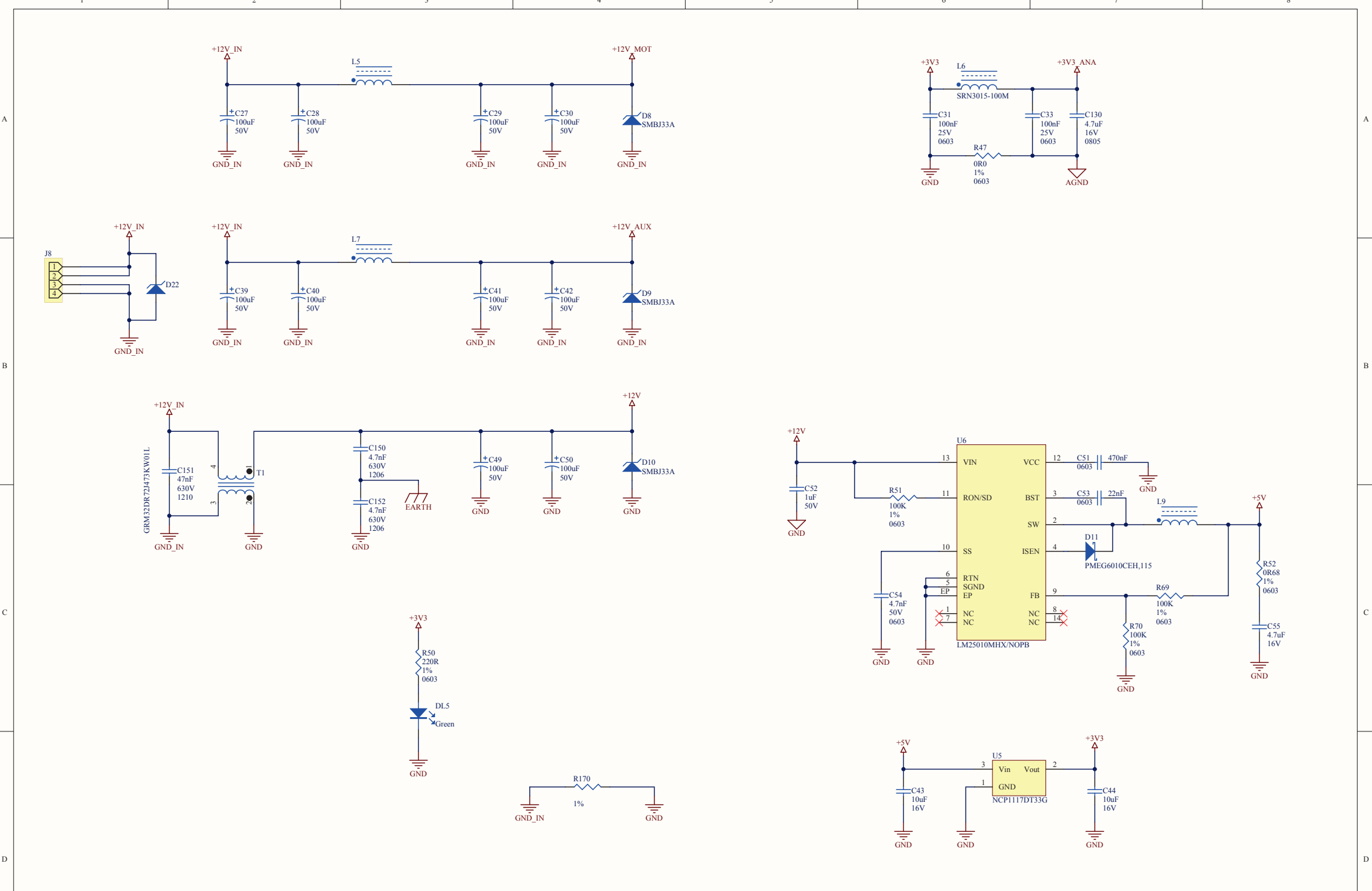
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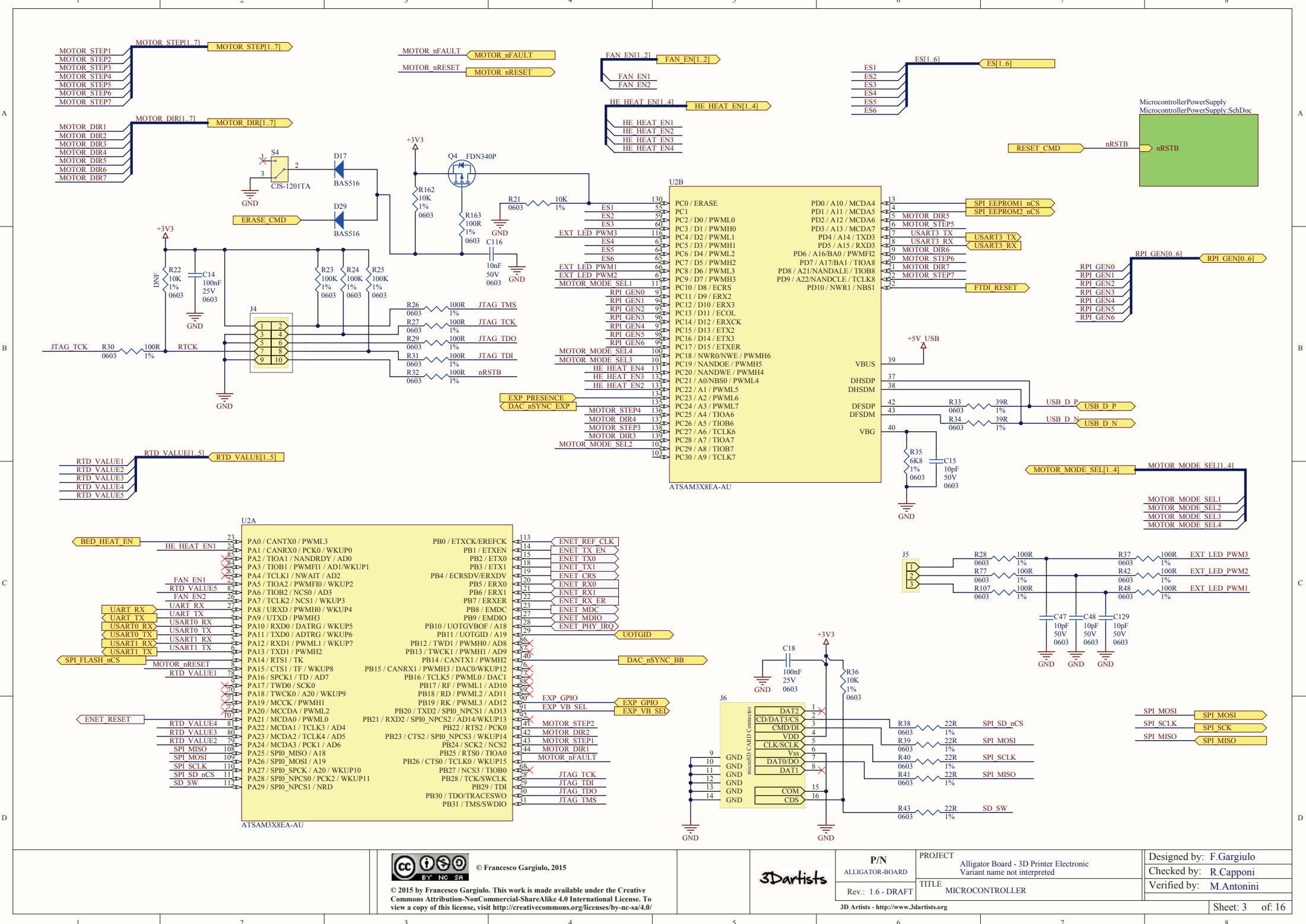
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TOPSHEET

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PROJECT

Alligator Board - 3D Printer Electronic
Variant name not interpreted

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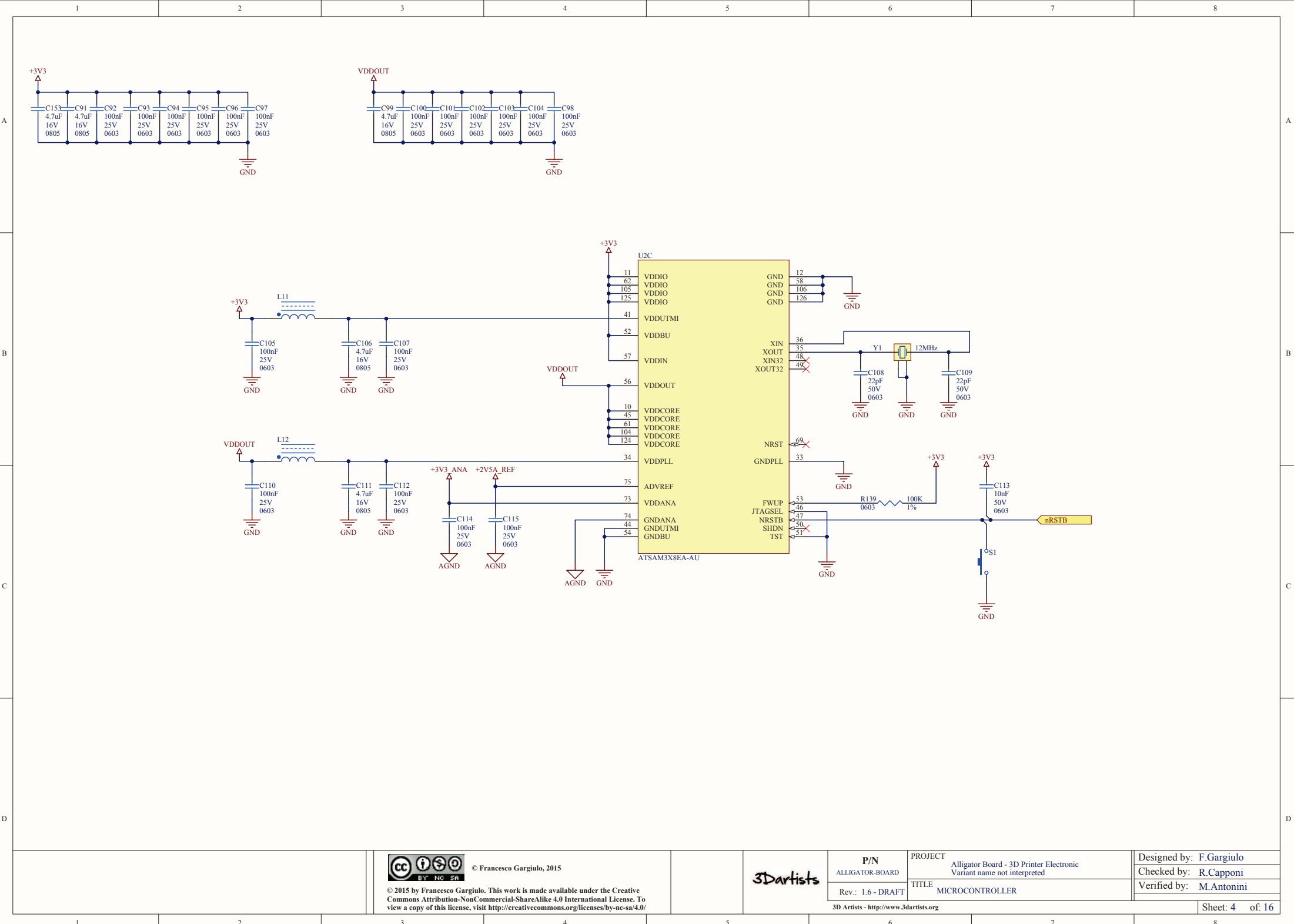
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PROJECT
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Variant name not interpreted

TITLE
MICROCONTROLLER

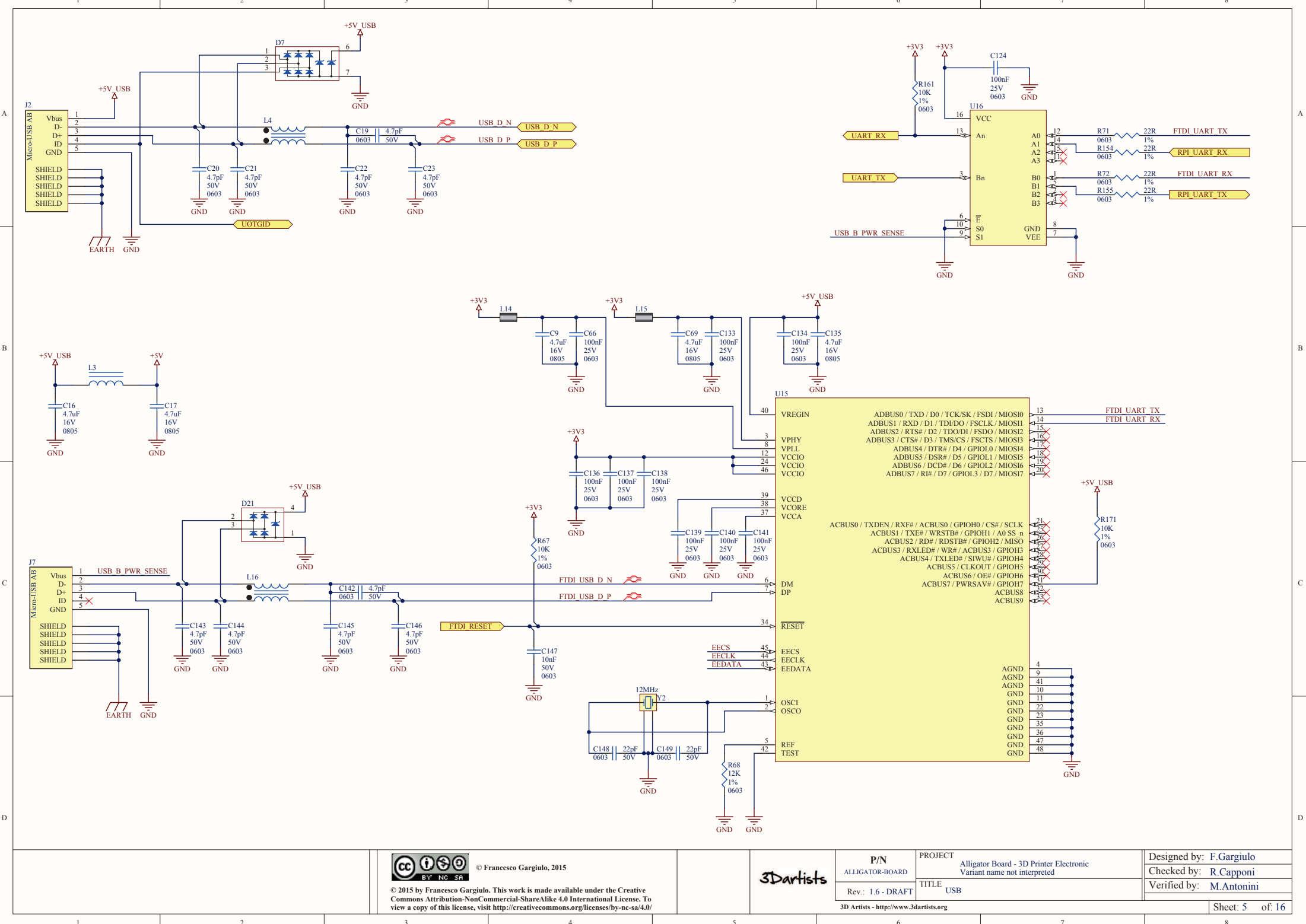
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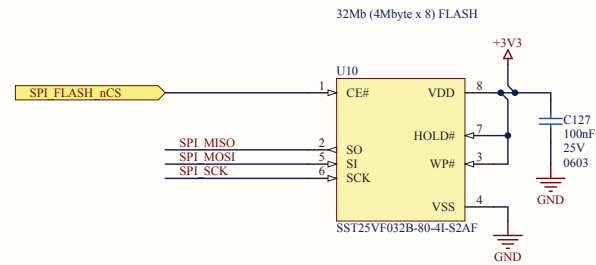
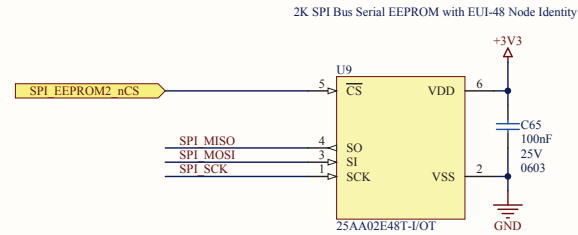
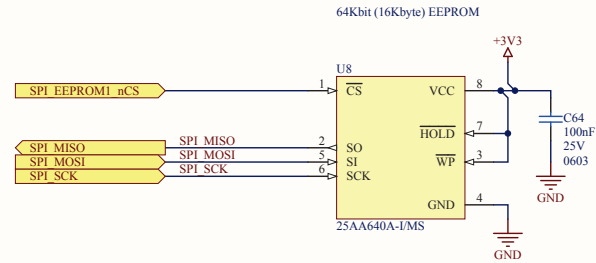
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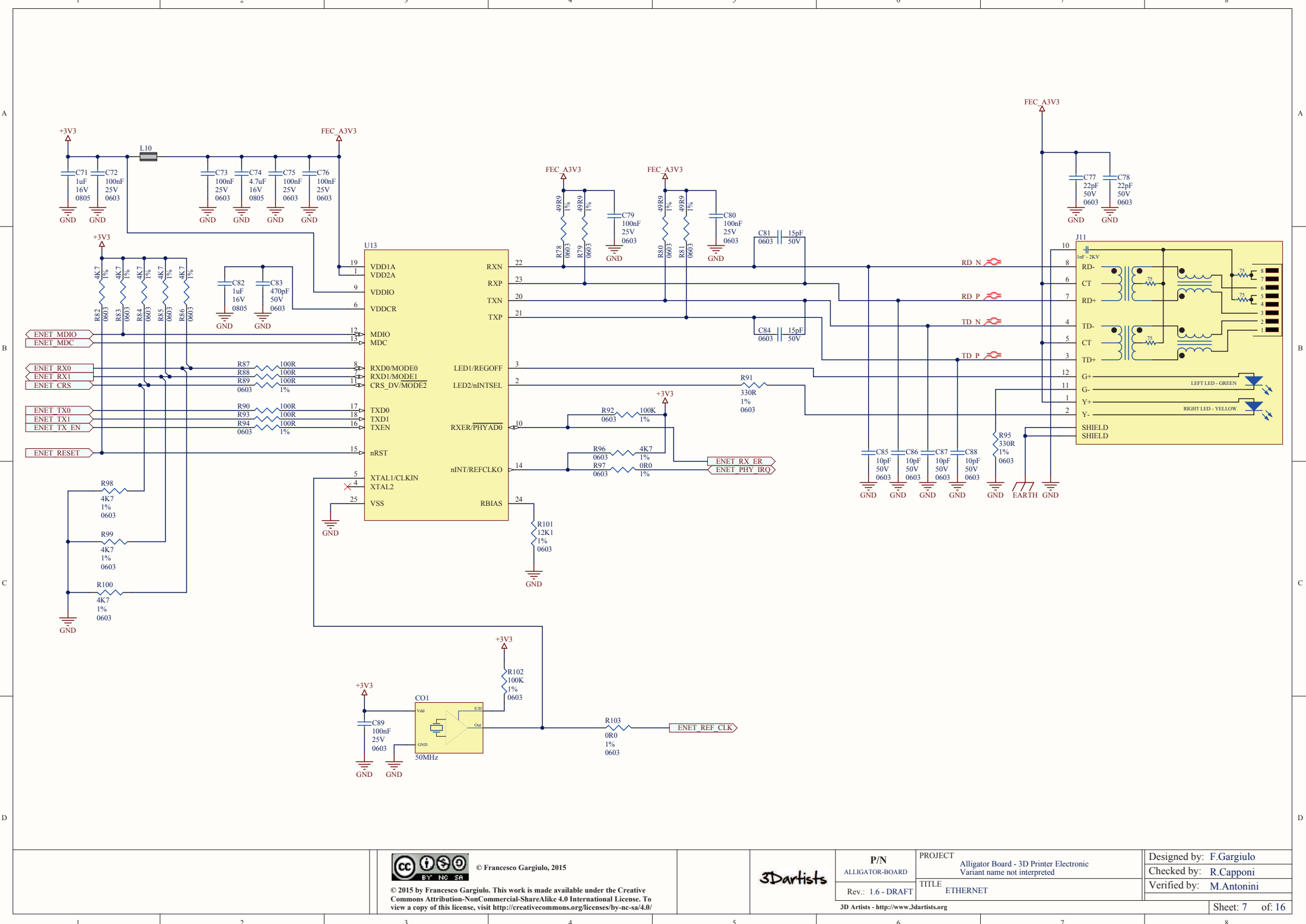
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ALLIGATOR-BOARD
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PROJECT
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TITLE
EXTERNAL MEMORY

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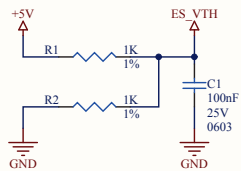
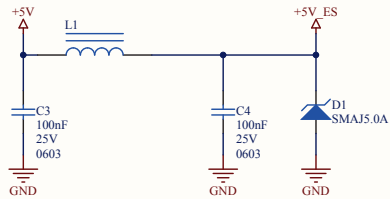
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Variant name not interpreted
TITLE
ETHERNET

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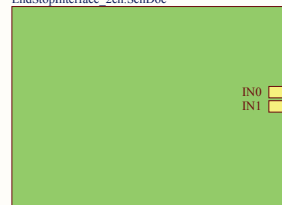




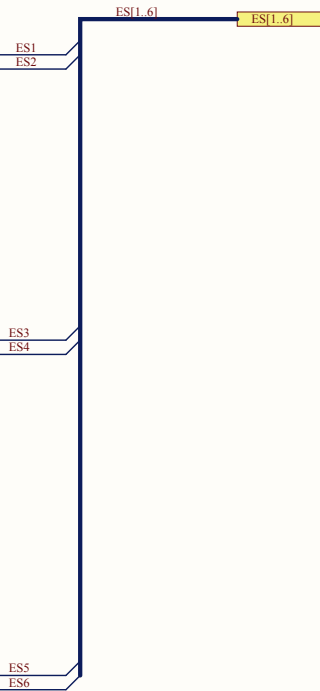
EndStopInterface_2ch
EndStopInterface_2ch.SchDoc



EndStopInterface_2ch
EndStopInterface_2ch.SchDoc



EndStopInterface_2ch
EndStopInterface_2ch.SchDoc



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PROJECT
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Variant name not interpreted

TITLE
END-STOP INTERFACE

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P/N
ALLIGATOR-BOARD

Rev.: 1.6 - DRAFT

PROJECT	Alligator Board - 3D Printer Electronic Variant name not interpreted
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TITLE	END-STOP INTERFACE
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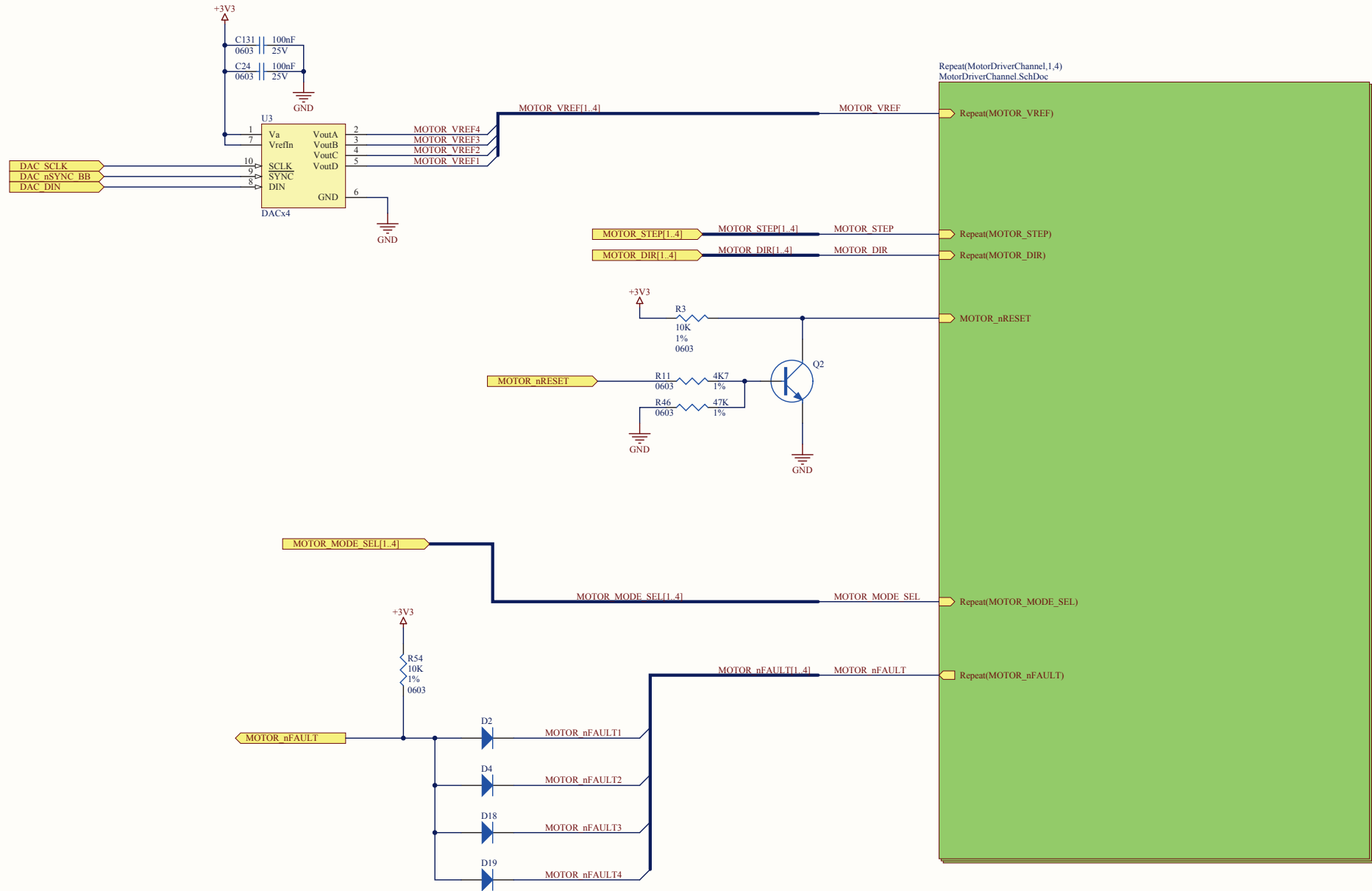
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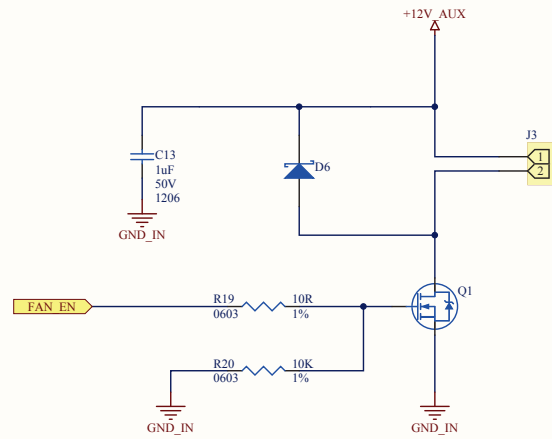
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	TITLE MOTOR DRIVER
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PROJECT
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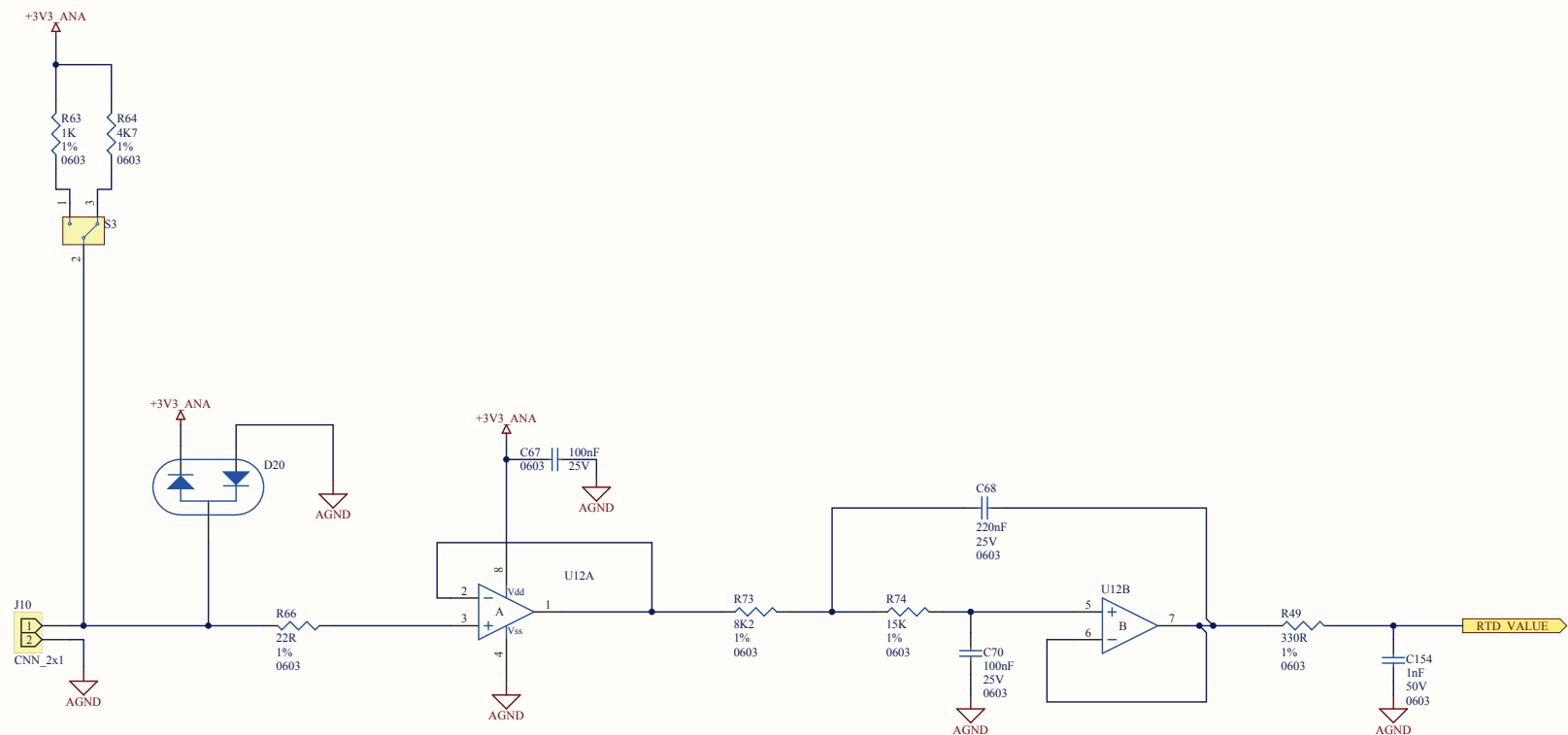
TITLE
FAN OUTPUT

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ALLIGATOR-BOARD
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PROJECT
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TITLE
THERMISTOR INTERFACE

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PIGGY INTERFACE

The schematic diagram illustrates the PIGGY INTERFACE, which connects a motor control system to an RTD sensor system.

Motor Control Section:

- Inputs:** MOTOR DIR5, MOTOR DIR6, MOTOR DIR7 are connected to MOTOR DIR[1..7]. MOTOR STEP5, MOTOR STEP6, MOTOR STEP7 are connected to MOTOR STEP[1..7].
- Outputs:** MOTOR nRESET and MOTOR nFAULT are connected to the motor control logic.
- Resistors:** R75, R76, R104, R105, R106, R108, R109, R110 are 47R resistors.
- Connectors:** J12 is a 10-pin connector.
- Power:** +5V and +3V3 are connected to the motor control logic. +3V3 is also connected to the RTD sensor system via R44 (100K, 1%).

RTD Sensor Section:

- Inputs:** RTD VALUE5, RTD VALUE4, RTD VALUE3 are connected to the RTD sensor logic.
- Resistors:** R132, R133, R134 are 47R resistors.
- Connectors:** J16 is a 7-pin connector.
- Power:** +3V3_ANA is connected to the RTD sensor logic.
- Capacitors:** C32, C35, C36 are 1nF, 50V capacitors.



A

B

C

D

A

B

C

D

