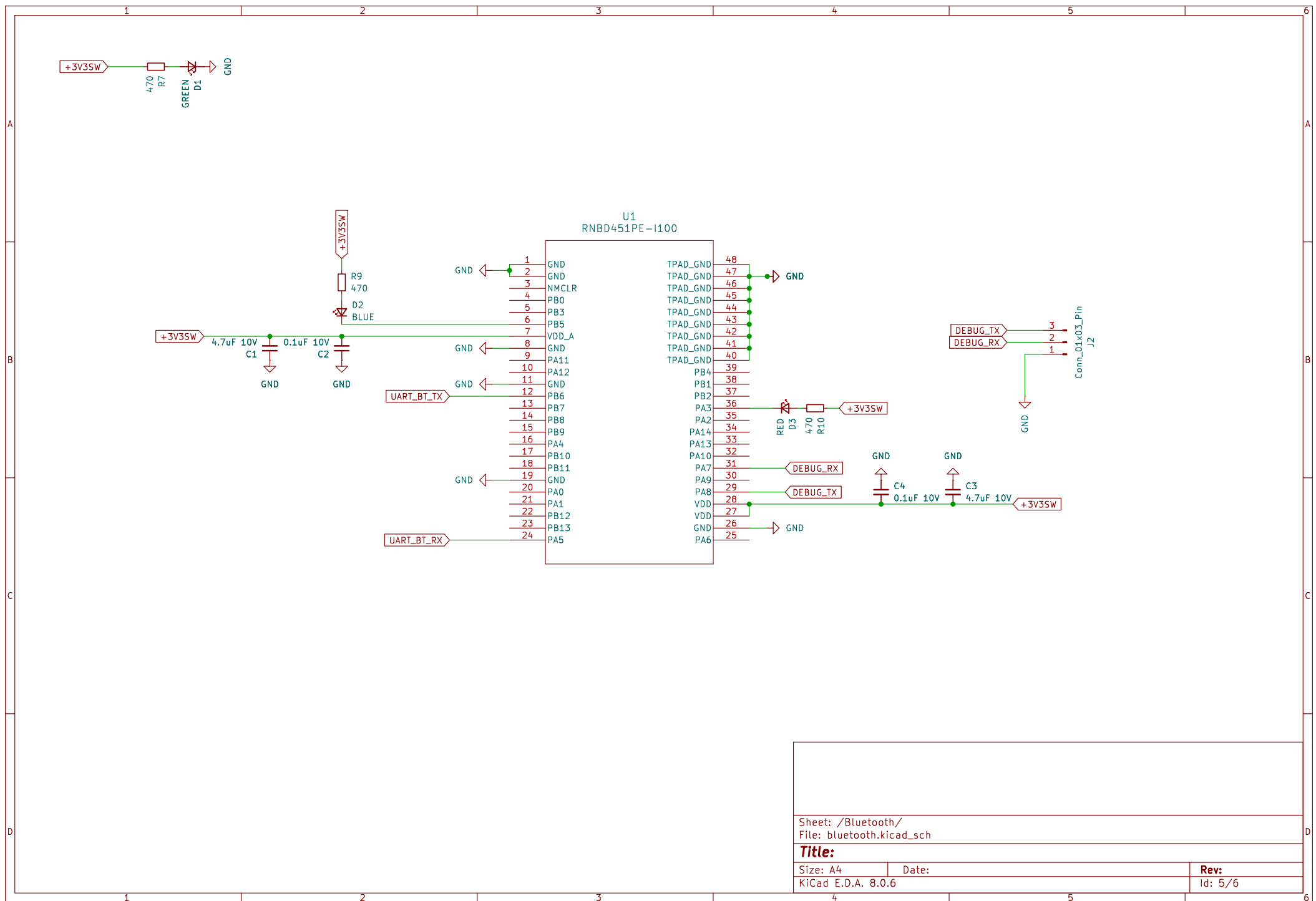


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1 2 3 4 5

A

INJECTORS

U2
VNLD5160TR-E

MCU_INJ1
MCU_INJ2

R3
4.7k

R4
4.7k

INJ_1
INJ_2

GND

B

COOLANT FAN & PUMP

U4
VNLD5160TR-E

MCU_CPC
MCU_CFC

R12
4.7k

R13
4.7k

CPC
CFC

GND

C

ACR

U3
VNLD5160TR-E

MCU_ACR1
MCU_ACR2

R5
4.7k

R6
4.7k

ACR_1
ACR_2

GND

D

Electronic Throttle

U5
TLE9201SGAUMA1

ETC_DIR
+3V3

ETC_OUT_M
GND

ETC_OUT_P
GND

ETC_PWM
+3V3

R14
R_Small

C7
100uF

C8
100nF

C6
10nF

C5
10nF

+12V

GND

IGNITION

Q1
ISL9V3040D3ST

Q2
ISL9V3040D3ST

MCUIGN_1
MCUIGN_2

R8
22

R11
22

IGN_1
IGN_2

GND

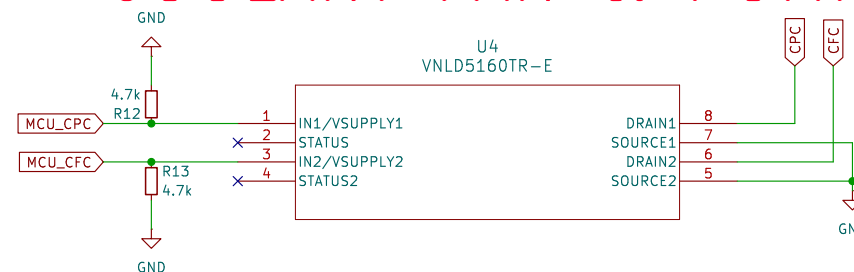
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File: outputs.kicad_sch

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COOLANT FAN & PUMP



1 2 3 4 5

A

INJECTORS

U2
VNLD5160TR-E

MCU_INJ1
MCU_INJ2

R3
4.7k

R4
4.7k

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

INJ_1
INJ_2

GND

COOLANT FAN & PUMP

U4
VNLD5160TR-E

MCU_CPC
MCU_CFC

R12
4.7k

R13
4.7k

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

CPC
CFC

GND

B

ACR

U3
VNLD5160TR-E

MCU_ACR1
MCU_ACR2

R5
4.7k

R6
4.7k

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

ACR_1
ACR_2

GND

Electronic Throttle

U5
TLE9201SGAUMA1

DIR
VSO
S0
VS
OUT1
GND

PWM
DIS
SCK
CSN
SI
OUT2

ETC_DIR
+3V3

ETC_OUT_M
ETC_OUT_P

R14
R_Small

+3V3

GND

C7
100uF

C8
100nF

C6
10nF

C5
10nF

+12V

C

IGNITION

Q1
ISL9V3040D3ST

Q2
ISL9V3040D3ST

MCUIGN_1
MCUIGN_2

R8
22

R11
22

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

IGN_1
IGN_2

GND

D

Sheet: /Outputs/
File: outputs.kicad_sch

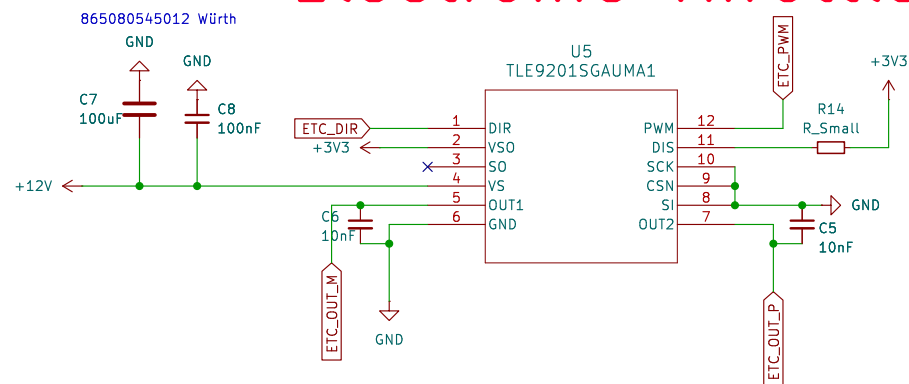
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Electronic Throttle



1 2 3 4 5

A

INJECTORS

U2
VNLD5160TR-E

MCU_INJ1
MCU_INJ2

R3
4.7k

R4
4.7k

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

INJ_1
INJ_2

GND

COOLANT FAN & PUMP

U4
VNLD5160TR-E

MCU_CPC
MCU_CFC

R12
4.7k

R13
4.7k

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

CPC
CFC

GND

B

ACR

U3
VNLD5160TR-E

MCU_ACR1
MCU_ACR2

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4.7k

R6
4.7k

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

ACR_1
ACR_2

GND

Electronic Throttle

U5
TLE9201SGAUMA1

ETC_DIR
+3V3

ETC_OUT_M
ETC_OUT_P

ETC_PWM

R14
R_Small

C7
100uF

C8
100nF

C6
10nF

C5
10nF

+12V

+3V3

GND

C

IGNITION

Q1
ISL9V3040D3ST

Q2
ISL9V3040D3ST

MCUIGN_1
MCUIGN_2

R8
22

R11
22

IN1/VSUPPLY1
STATUS
IN2/VSUPPLY2
STATUS2

DRAIN1
SOURCE1
DRAIN2
SOURCE2

IGN_1
IGN_2

GND

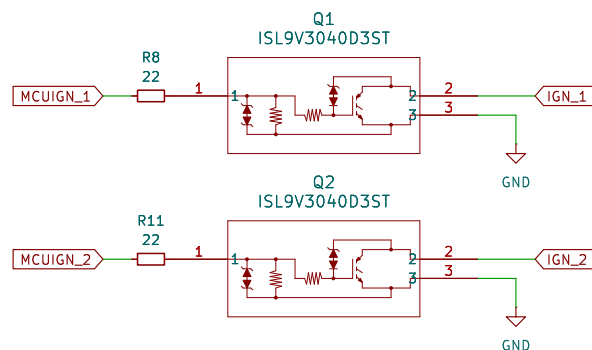
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Sheet: /Outputs/
File: outputs.kicad_sch

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