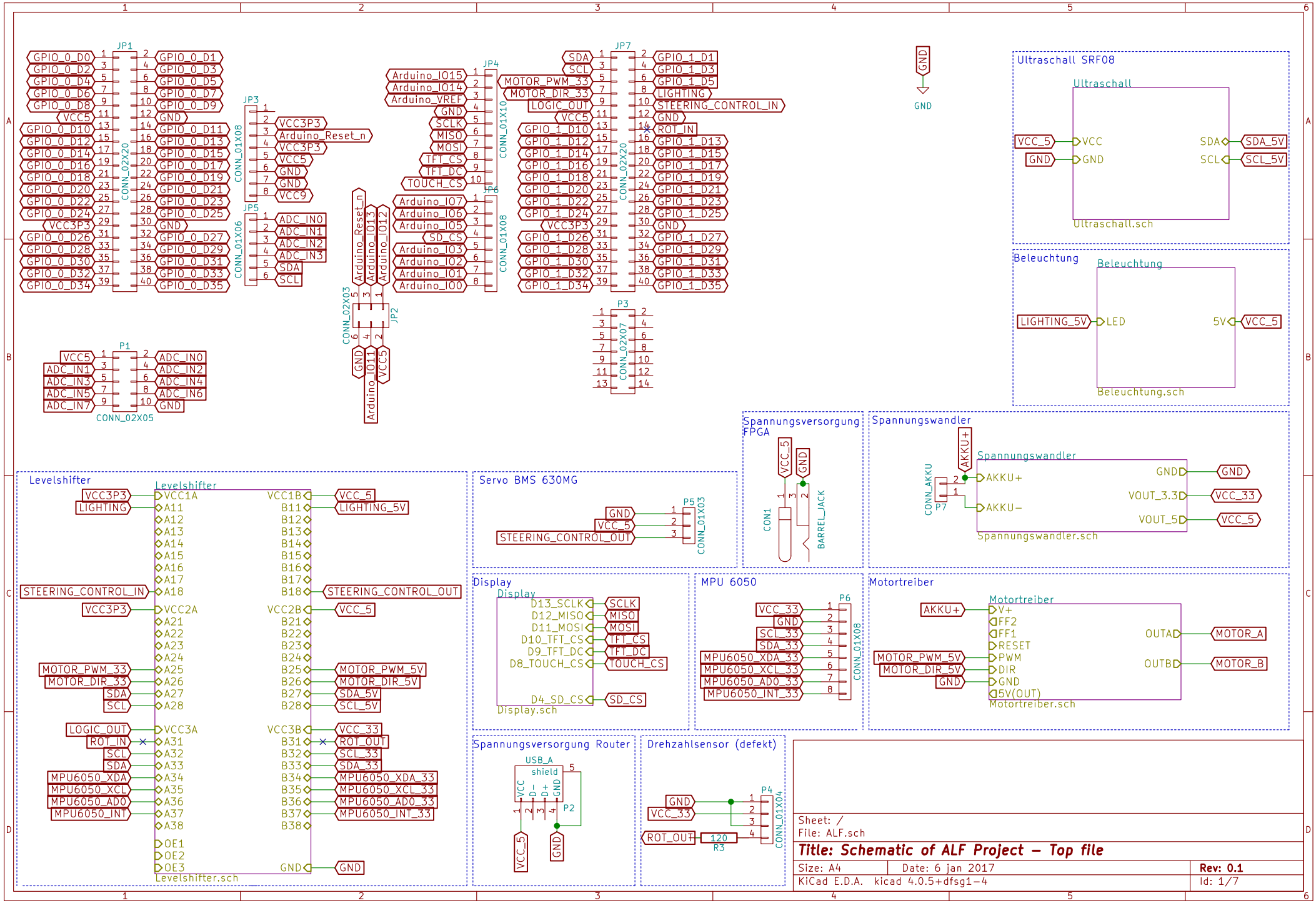
JP1
CONN_02X20
GPIO_0_D0
GPIO_0_D1
GPIO_0_D2
GPIO_0_D3
GPIO_0_D4
GPIO_0_D5
GPIO_0_D6
GPIO_0_D7
GPIO_0_D8
GPIO_0_D9
VCC5
GND
GPIO_0_D10
GPIO_0_D11
GPIO_0_D12
GPIO_0_D13
GPIO_0_D14
GPIO_0_D15
GPIO_0_D16
GPIO_0_D17
GPIO_0_D18
GPIO_0_D19
GPIO_0_D20
GPIO_0_D21
GPIO_0_D22
GPIO_0_D23
GPIO_0_D24
GPIO_0_D25
VCC3P3
GND
GPIO_0_D26
GPIO_0_D27
GPIO_0_D28
GPIO_0_D29
GPIO_0_D30
GPIO_0_D31
GPIO_0_D32
GPIO_0_D33
GPIO_0_D34
GPIO_0_D35
JP3
CONN_01X08
VCC3P3
Arduino_Reset_n
VCC3P3
VCC5
GND
GND
VCC9
JP5
CONN_01X06
ADC_IN0
ADC_IN1
ADC_IN2
ADC_IN3
SDA
SCL
JP4
CONN_01X10
Arduino_IO15
Arduino_IO14
Arduino_VREF
GND
SCLK
MISO
MOSI
TFT_CS
TFT_DC
TOUCH_CS
JP6
CONN_01X08
Arduino_IO7
Arduino_IO6
Arduino_IO5
SD_CS
Arduino_IO3
Arduino_IO2
Arduino_IO1
Arduino_IO0
JP7
CONN_02X20
SDA
SCL
MOTOR_PWM_33
MOTOR_DIR_33
LOGIC_OUT
VCC5
GND
ROT_IN
LIGHTING
STEERING_CONTROL_IN
GND
GPIO_1_D1
GPIO_1_D3
GPIO_1_D5
GPIO_1_D10
GPIO_1_D12
GPIO_1_D14
GPIO_1_D16
GPIO_1_D18
GPIO_1_D20
GPIO_1_D22
GPIO_1_D24
VCC3P3
GND
GPIO_1_D26
GPIO_1_D28
GPIO_1_D30
GPIO_1_D32
GPIO_1_D34
GPIO_1_D13
GPIO_1_D15
GPIO_1_D17
GPIO_1_D19
GPIO_1_D21
GPIO_1_D23
GPIO_1_D25
GPIO_1_D27
GPIO_1_D29
GPIO_1_D31
GPIO_1_D33
GPIO_1_D35
GND
GND
Arduino_Reset_n
Arduino_IO13
Arduino_IO12
CONN_02X03
JP2
GND
Arduino_IO11
VCC5
P1
CONN_02X05
VCC5
ADC_IN1
ADC_IN3
ADC_IN5
ADC_IN7
ADC_IN0
ADC_IN2
ADC_IN4
ADC_IN6
GND
P3
CONN_02X07
Ultraschall SRF08
Ultraschall
VCC_5
GND
VCC
GND
SDA
SCL
SDA_5V
SCL_5V
Ultraschall.sch
Beleuchtung
Beleuchtung
LIGHTING_5V
LED
5V
VCC_5
Beleuchtung.sch
Spannungsversorgung FPGA
VCC_5
GND
CON1
BARREL_JACK
Spannungswandler
AKKU+
CONN_AKKU
P7
Spannungswandler
AKKU+
AKKU−
GND
VOUT_3.3
VOUT_5
GND
VCC_33
VCC_5
Spannungswandler.sch
Levelshifter
Levelshifter
VCC3P3
LIGHTING
STEERING_CONTROL_IN
VCC3P3
MOTOR_PWM_33
MOTOR_DIR_33
SDA
SCL
LOGIC_OUT
ROT_IN
SCL
SDA
MPU6050_XDA
MPU6050_XCL
MPU6050_AD0
MPU6050_INT
VCC1A
A11
A12
A13
A14
A15
A16
A17
A18
VCC2A
A21
A22
A23
A24
A25
A26
A27
A28
VCC3A
A31
A32
A33
A34
A35
A36
A37
A38
OE1
OE2
OE3
VCC1B
B11
B12
B13
B14
B15
B16
B17
B18
VCC2B
B21
B22
B23
B24
B25
B26
B27
B28
VCC3B
B31
B32
B33
B34
B35
B36
B37
B38
GND
VCC_5
LIGHTING_5V
STEERING_CONTROL_OUT
VCC_5
MOTOR_PWM_5V
MOTOR_DIR_5V
SDA_5V
SCL_5V
VCC_33
ROT_OUT
SCL_33
SDA_33
MPU6050_XDA_33
MPU6050_XCL_33
MPU6050_AD0_33
MPU6050_INT_33
GND
Levelshifter.sch
Servo BMS 630MG
GND
VCC_5
STEERING_CONTROL_OUT
P5
CONN_01X03
Display
Display
D13_SCLK
D12_MISO
D11_MOSI
D10_TFT_CS
D9_TFT_DC
D8_TOUCH_CS
D4_SD_CS
SCLK
MISO
MOSI
TFT_CS
TFT_DC
TOUCH_CS
SD_CS
Display.sch
MPU 6050
P6
CONN_01X08
VCC_33
GND
SCL_33
SDA_33
MPU6050_XDA_33
MPU6050_XCL_33
MPU6050_AD0_33
MPU6050_INT_33
Motortreiber
Motortreiber
AKKU+
V+
FF2
FF1
RESET
PWM
DIR
GND
5V(OUT)
MOTOR_PWM_5V
MOTOR_DIR_5V
GND
OUTA
OUTB
MOTOR_A
MOTOR_B
Motortreiber.sch
Spannungsversorgung Router
USB_A
shield
VCC
D-
D+
GND
P2
VCC_5
GND
Drehzahlsensor (defekt)
P4
CONN_01X04
GND
VCC_33
ROT_OUT
120
R3
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Title: Schematic of ALF Project – Top file
Size: A4
Date: 6 jan 2017
Rev: 0.1
KiCad E.D.A. kicad 4.0.5+dfsg1-4
Id: 1/7