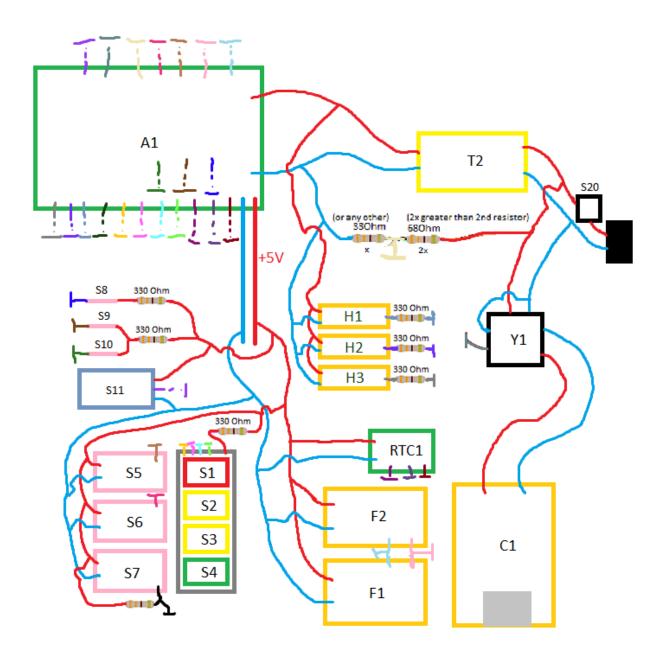
3S Li-ion Power source				
Sign	Description	Function		
-	4-pin_MOLEX: [LINK 1] [LINK 2] [LINK 3] [LINK 4]	AC1 AC2		
-	Baskets for 18650 accumulator (3x)	AC3		
T1	DC-DC Transformer with microUSB (set to 12,6V)	BM1		
BM1	<u>Li-ion BMS charger 3S</u>	Т1		
AC	Li-ion 18650 accumulator, required type: min. 5A max			
FP1	Fotovoltaic panel (optional)	FP1		

Bicycle circuit					
Sign	Arduino Sign	Description	Function		
Lamps					
H1	D0	ARGB 0,85m 51 diodes=> 5V/3,06A	Main LED strip		
H2	D1	ARGB 0,1m 6 diodes => 5V /0,36A	Front lamp LED strip		
Н3	D2	ARGB 0,05m 3 diodes => 5V /0,18A	Back lamp LED strip		
Buttons					
S1	D3				
S2	D4				
S3	D5	Membrane keyboard => 4 keys	Details on the 3rd page		
S4	D6				
	1	Screens			
F1	A4/A5	0,96' OLED blue + yellow display	Displays current buttons type		
		2x16 LCD screen with I2C	Displays speed, clock, temperature		
F2	A4/A5	converter	and button-changed info		
Sensors					
S5	A6	Light detector	Auto turn on/off and set brightness		
S6	A7	Snow/rain detector	for lamps when autolights is on		
S7	D7	Temperature sensor	Display temperature on Icd		
S8	D8	Temperature sensor	Measure wheel speed and distance		
S9	D9	Reed switch	Detect left lever		
S10	D10		Detect right lever		
S11	A1	IR receiver	Control main LED via remote		
Chargers					
C1	-	Transformer with USB and QC	Charging port for phone and other USB-charged devices		
Voltage check					
	A2 Voltage divider (33% into po		If voltage level is low (<3,7V) display		
-		Voltage divider (33% into port)	warning at F1, turn off main LED,		
			turn off autofunctions and cut off C1		
Relays					
Y1	A0	Relay	Cuts off C1 sometimes		
Other stuff					
T2	-	DC-DC Transformer (set to 5V and	Voltage change for Arduino and		
		max amperage)	LEDs		
A1	-	Arduino Nano Every	Main controller		
RTC1	D11/D12/D13	Real Time Clock module	Provide current time		
-	_	Resistors (6x 3300hm, 1x	Needed to not burn LEDs and to		
606		4.7kOhm, 3x any)	check voltage higher than maximum		
S20	-	On/off button	Button starting whole circuit		
-	-	IR remote control	Control main LED via remote		



Buttons functions:

4 - change device

[speedometer]

- 1 2secs hold reset [trip dist, trip time, avg speed, max speed]
- 2 next function of speedometer
- 3 prev function of speedometer

[main led]

- 1 on/off
- 2 change glow type
- 3 change brightness

[front led]

- 1 on/off
- 2 change glow type
- 3 change brightness

[back led]

- 1 on/off
- 2 change glow type
- 3 change brightness

[smart functions]

- 1 turn signals and breaking led
- 1 auto driving lights
- 2 usb port on/off

(brake levers)

[turn signals]

2x left lever – left turn signal on/off 2x right lever – right turn signal on/off 2secs hold 2 levers – hazard lights on/off