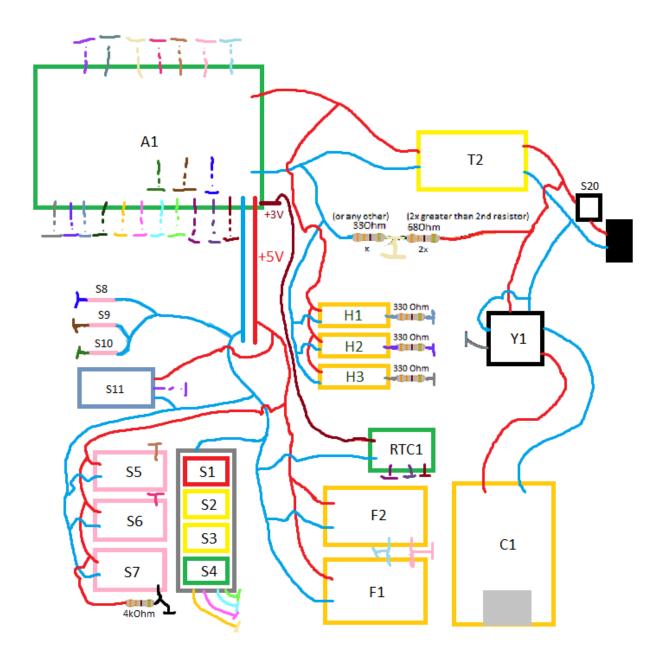
3S Li-ion Power source				
Sign	Description	Function		
-	4-pin_MOLEX: [LINK 1] [LINK 2] [LINK 3] [LINK 4]	AC1 AC2 AC3		
-	Baskets for 18650 accumulator (3x)			
T1	DC-DC Transformer with microUSB (set output to 15V)	ВМ1		
Т2	DC-DC Transformer with current control (set output to 13V, max 2A => amperage is proportional to speed of charging)	T1 T2		
BM1	<u>Li-ion BMS charger 3S</u>			
AC	Li-ion 18650 accumulator, required type: min. 5A max	FP1		
FP1	Fotovoltaic panel (optional)	""1		

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 4th page		
S4	D6				
	-	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					
C.F.	100	Professional Community	16		
S5	A6	<u>Light detector</u>	Auto turn on/off and set brightness		
S6	A7	Snow/rain detector	for lamps when autolights is on		
S7	D7	<u>Temperature sensor</u>	Display temperature on lcd		
S8	D8		Measure wheel speed and distance		
S9	D9	Reed switch	Detect left lever		
S10	D10	ID	Detect right lever		
S11	A1	<u>IR receiver</u>	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 port)	If voltage level is low (<3,7V) display		
			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 (3x 3300hm, 1x	Needed to not burn LEDs and to		
		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