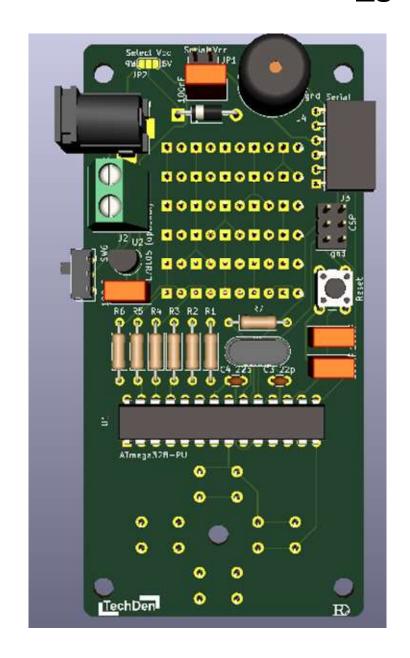
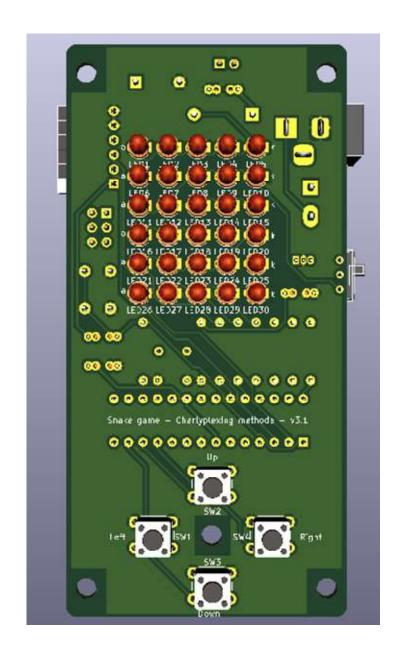


Snake_game v3.1 PCB





#	Quantity	Part	References	Value	Description	Price/part		Costs
1	1	PCB	Snake game	v3.1	PCB	€	2,50	€ 2,50
2	1	Buzzer	BZ1	Buzzer 5V	Buzzer, polarized	€	0,20	€ 0,20
3	4	С	C1 C2 C5 C6	100nF	Unpolarized capacitor	€	0,02	€ 0,08
4	2	С	C3 C4	22p	Unpolarized capacitor	€	0,05	€ 0,10
5	1	1N4007	D1	1N4007	1kV 1A General Purpose Rectifier Diode, DO-41	€	0,02	€ 0,02
6	1	Barrel_Jack	J1	Barrel_Jack (optional)	DC Barrel Jack with an internal switch	€	0,10	€ 0,10
7	1	Screw_Terminal_01x02	J2	+ Power in - (optional)	Generic screw terminal, single row, 01x02	€	0,15	€ 0,15
8	1	Conn_02x03_Male	J3	ICSP	Generic connector, double row, 02x03, male	€	0,02	€ 0,02
9	1	Conn_01x06_Female	J4	Serial	Generic connector, single row, 01x06, female	€	0,02	€ 0,02
10	1	Jumperpins & jumper	JP1	Serial Vcc	Jumperpins & jumper	€	0,02	€ 0,02
11	30	LED	LED1 - LED30	LED Red	Light emitting diode	€	0,05	€ 1,50
12	6	R	R1 R2 R3 R4 R5 R6	100E	Resistor	€	0,02	€ 0,12
13	1	R	R7	10k	Resistor	€	0,02	€ 0,02
14	5	SW_Push_Dual	SW1	Push button	Push button switch	€	0,02	€ 0,10
15	1	SW_SPDT	SW6	SW_SPDT (optional)	Switch, single pole double throw	€	0,10	€ 0,10
16	1	ATmega328-PU	U1	ATmega328-PU	20MHz, 32kB Flash, 2kB SRAM, 1kB EEPROM, DIP-28	€	1,50	€ 1,50
17	1	Socket	U1	28p	Socket 28p	€	0,20	€ 0,20
17	1	78L05	U2	L78L05 (optional)	Positive 100mA 30V Linear Regulator, Output 5V, TO-92	€	0,05	€ 0,05
18	1	Crystal	Y1	16MHz	Two pin crystal	€	0,10	€ 0,10
18	1	9V batterij connector		Batterij conn (optional)	Batterij conn (optional)			€ -
19	1	FTDI board		FTDI (optional)	USB to TTL converter board (optional)	€	0,60	€ 0,60
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Schematic: Snake game

Schematic Version: 3.1 Schematic Date: 2-6-2020

Snake_game_bom_3.1.xlsx Printdatum: 3-7-2021