

Fakultät für Informatik

Tik-Tak-Toe Roboter

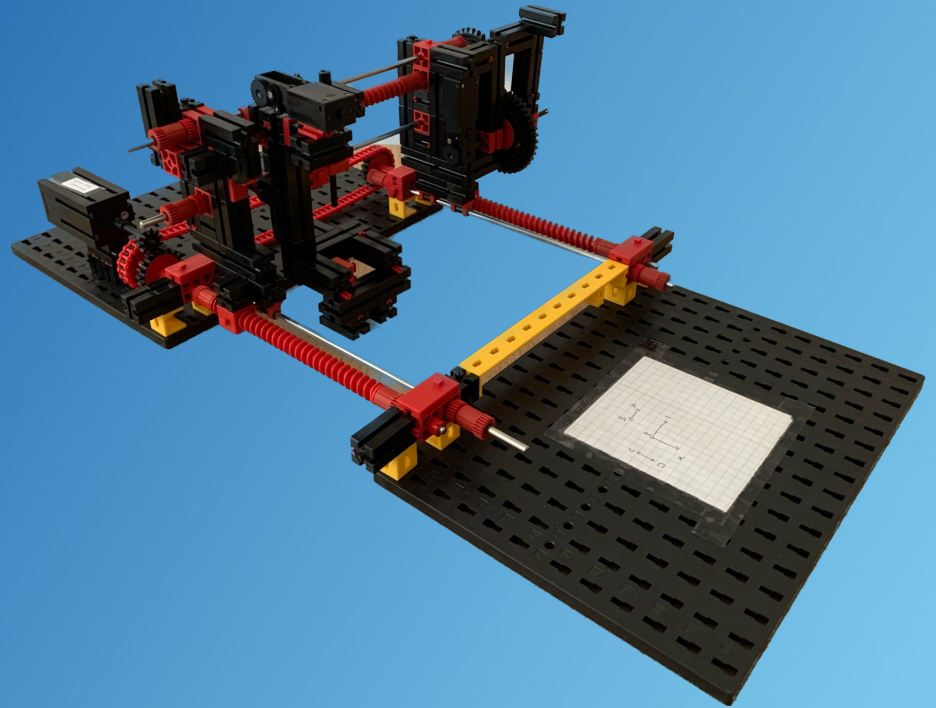
Autonome mobile Roboter

Jörg Vierling

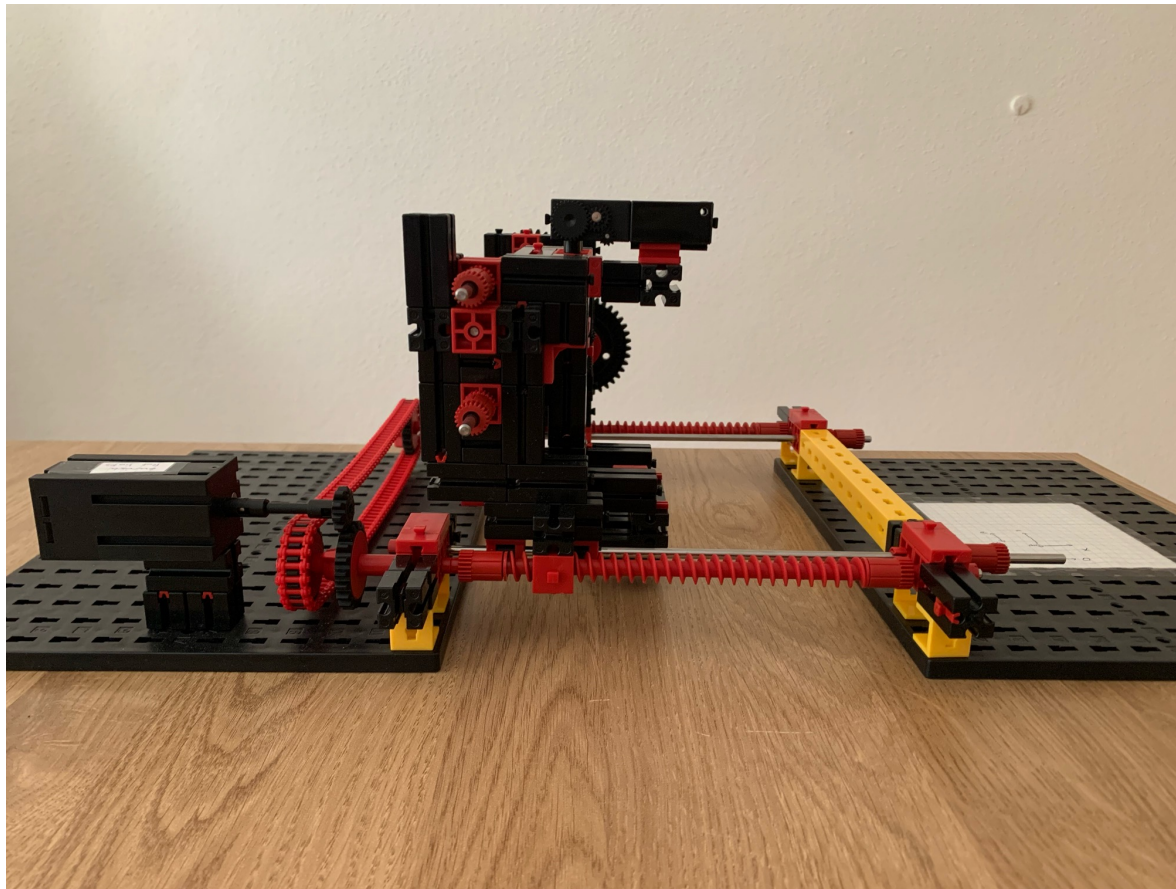
Niklas Büchner

Jannis Büchner

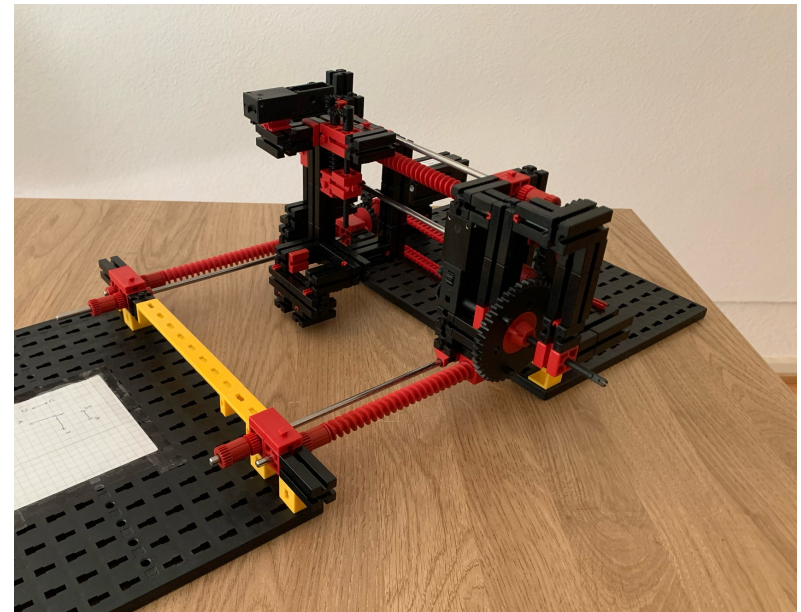
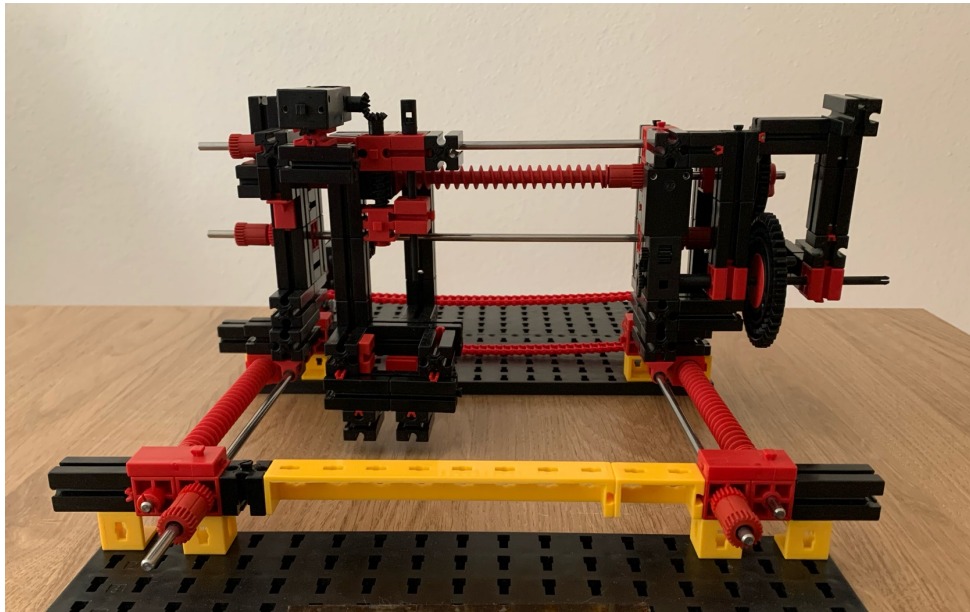
Mannheim, 21.07.2023



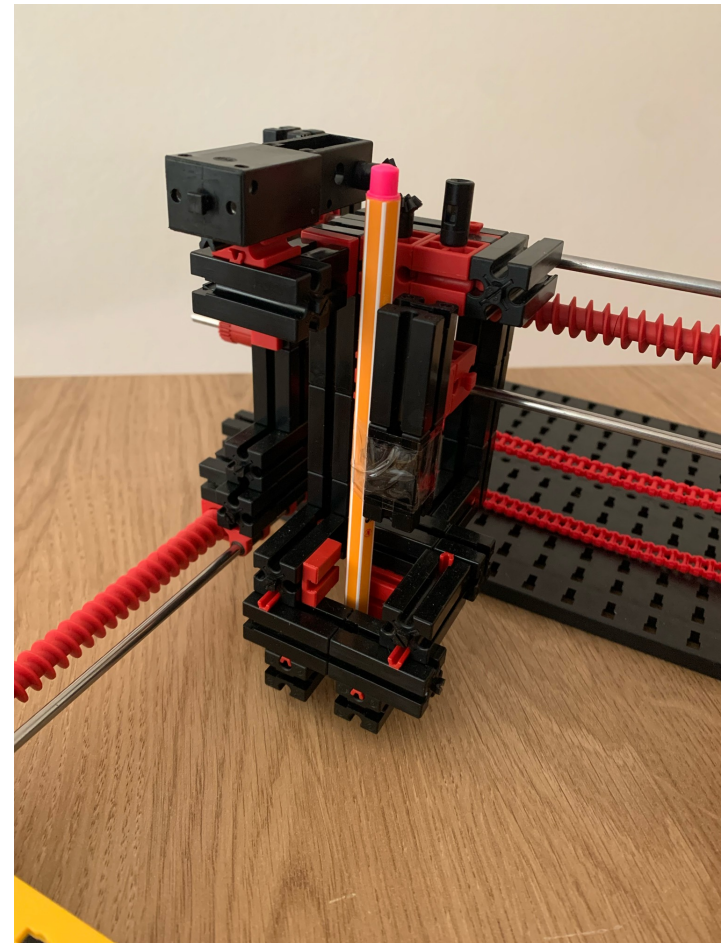
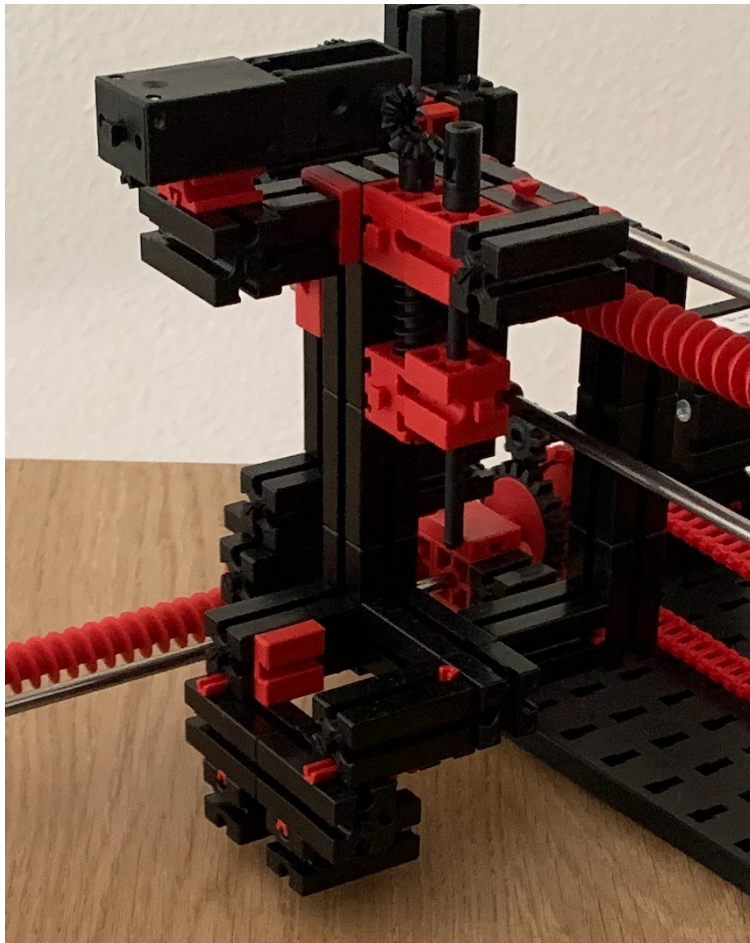
Mechanik: x-Achse



Mechanik: y-Achse

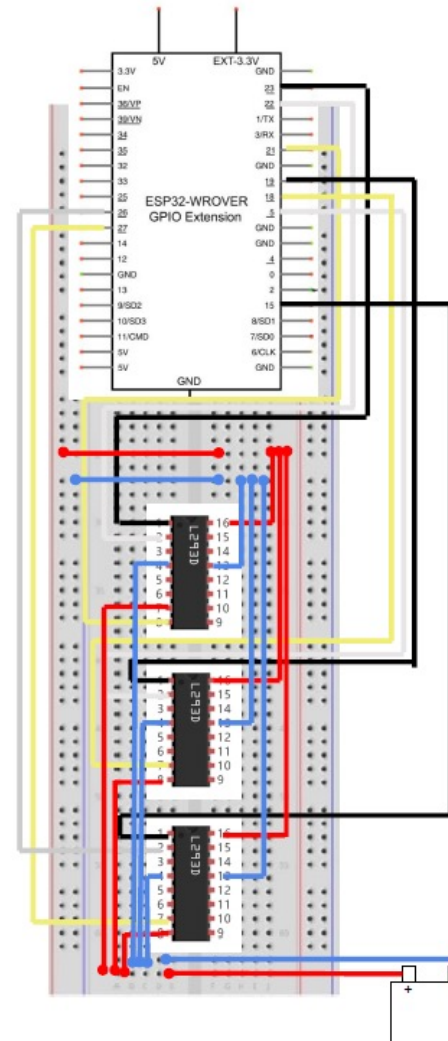


Mechanik: z-Achse



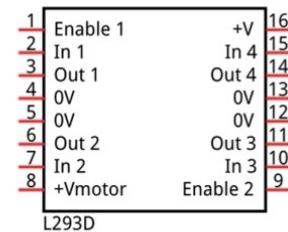
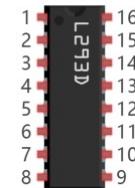
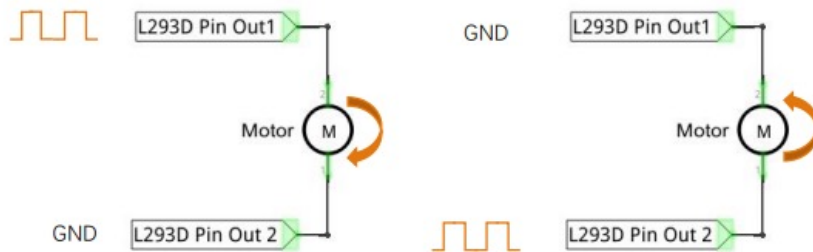


Elektrik: Schaltplan





Elektrik: Driver



Port description of L293D module is as follows:

Pin name	Pin number	Description
In x	2, 7, 10, 15	Channel x digital signal input pin
Out x	3, 6, 11, 14	Channel x output pin, input high or low level according to In x pin, get connected to +Vmotor or 0V
Enable1	1	Channel 1 and channel 2 enable pin, high level enable
Enable2	9	Channel 3 and channel 4 enable pin, high level enable
0V	4, 5, 12, 13	Power cathode (GND)
+V	16	Positive electrode (VCC) of power supply, supply voltage 4.5~36V
+Vmotor	8	Positive electrode of load power supply, provide power supply for the Out pin x, the supply voltage is +V~36V



Softwaresteuerung





Ende