

Group	Part	Content	Quantity	Description/comment	Source/Link	Price per unit	Total	Sum
Actuators	Cytron MD 20A	1	1	20 A brushed DC motor driver	https://eu.robotshop.com/de/products/cytron-20a-6-30v-dc-motorst	23.80 €	23.80 €	954.12 €
Actuators	775 12 V 10k rpm 150 W	1	1	775 brushed DC motor	https://www.amazon.de/dp/B07BGWYYM	13.99 €	13.99 €	
Actuators	40-45mm motor cooler	1	1	Cooling block for DC motor	https://www.ebay.de/itm/224586911069	15.95 €	15.95 €	
Actuators	Claw clutch (5 mm shaft coupler)	1	1	shaft adapter for 775 motor	https://www.amazon.de/dp/B09MLV2G45/	10.99 €	10.99 €	
Actuators	Servo motor	1	1	Graupner DES 708 BB MG	https://www.derkunst-modellbau.com/rc--elektronik/servos/servos/g	43.90 €	43.90 €	
Actuators	Servo saver	1	1	Tamiya high torque servo saver	https://tamico.de/Tamiya-Servo-Saver-Hi-Torque-weiss-50473	13.39 €	13.39 €	
Wheels	Carson 1:8 buggy	2	2	Carson buggy wheels	https://www.amazon.de/Carson-500900075-Felgen-Set-Modellbauze	11.99 €	23.98 €	
Batteries	SLS XTRON 5000MAH 3S1P	1	1	car battery	https://www.stefansliposshop.de/akkus/sls-xtron/sls-xtron-20c/sls-xt	51.90 €	51.90 €	
Batteries	Duracell NiMH AA 2500 mAh	4	2	RC batteries	https://www.reichelt.de/nimh-akku-aa-mignon-2500-mah-4er-pack-c	12.95 €	25.90 €	
Bearings	683ZZ	20	2	3x7x3	https://www.amazon.de/sourcing-map-Rillenkugellager-Doppelschil	9.49 €	18.98 €	
Bearings	6802ZZ	10	2	15x24x5	https://www.amazon.de/XiKe-Kugellager-15x24x5mm-Abgedichtet-R	11.59 €	23.18 €	
Bearings	6804ZZ	10	1	20x32x7	https://www.amazon.de/XiKe-Kugellager-20x32x7mm-Abgedichtet-R	12.99 €	12.99 €	
Bearings	608ZZ	20	1	8x22x7	https://www.amazon.de/HonLena-Kugellager-Shielded-Rillenkugellag	9.99 €	9.99 €	
Bearings	605ZZ	10	1	5x14x5	https://www.amazon.de/sourcing-map-Rillenkugellager-5mmx14mm	7.99 €	7.99 €	
Bearings	MR85ZZ	10	1	5x8x2.5	https://www.amazon.de/dp/B07CKN7NPK	8.14 €	8.14 €	
Bearings	0303 sleeve bearing	50	1	3x4.5x3	https://www.amazon.de/dp/B06Y6D951G	8.63 €	8.63 €	
Bearings	0306 sleeve bearing	50	1	3x4.5x6	https://www.amazon.de/dp/B06Y617JGS	9.66 €	9.66 €	
Connectors	Molex 16-02-0102	100	1	Molex SL female crimp pin	https://www.mouser.de/ProductDetail/Molex/16-02-0102?qs=UAYm	8.50 €	8.50 €	
Connectors	Molex 70543-0001	10	1	Molex SL 2-pin socket	https://www.mouser.de/ProductDetail/Molex/70543-0001?qs=tYx%2	7.60 €	7.60 €	
Connectors	Molex 70543-0002	10	1	Molex SL 3-pin socket	https://www.mouser.de/ProductDetail/Molex/70543-0002?qs=tYx%2	7.67 €	7.67 €	
Connectors	Molex 70543-0003	10	1	Molex SL 4-pin socket	https://www.mouser.de/ProductDetail/Molex/70543-0003?qs=tYx%2	8.59 €	8.59 €	
Connectors	Molex 50-57-9402	10	1	Molex SL 2-pin female connector	https://www.mouser.de/ProductDetail/Molex/50-57-9402?qs=u6Gr9	2.53 €	2.53 €	
Connectors	Molex 50-57-9403	10	1	Molex SL 3-pin female connector	https://www.mouser.de/ProductDetail/Molex/50-57-9403?qs=u6Gr9	1.71 €	1.71 €	
Connectors	Molex 50-57-9404	10	1	Molex SL 4-pin female connector	https://www.mouser.de/ProductDetail/Molex/50-57-9404?qs=u6Gr9	2.17 €	2.17 €	
Connectors	Jamara XT60	1	1	M/F pair of high-current connectors	https://www.reichelt.de/steckverbinder-fuer-li-polymer-akkus-2-polig	1.99 €	1.99 €	
Electronics	ESP32 MCU	2	1	with connector for external antenna	https://www.amazon.de/iHaospace-ESP32-WROOM-32U-ESP32-Dev	15.99 €	15.99 €	
Electronics	Antenna	2	1	external antenna for ESP32	https://www.pollin.de/2-4GHz-Omnidirektionale-Antenne-802-11n	6.99 €	6.99 €	
Electronics	ADS1115	1	2	ADC boards	https://www.amazon.de/AZDelivery-ADS1115-Kanäle-Arduino-Raspb	5.99 €	11.98 €	
Electronics	Marquardt 01801.1148-02	1	2	Marquardt on-off switch, series 1801	https://www.reichelt.de/de/de/shop/produkt/wippschalter_ein_-_aus	1.60 €	3.20 €	
Electronics	ONPOW anti-vandal push button	1	4	with LED, 16 mm mounting hole	https://www.pollin.de/p/onpow-vandalismusgeschuetzter-taster-220	4.55 €	18.20 €	
Electronics	Battery holder	1	1	6xAA	https://funduinoshop.com/diy-werkstatt/stromversorgung/batteriefae	1.97 €	1.97 €	
Electronics	Omeg PC20BU 10k linear	1	1	Poti with 6 mm shaft	https://www.pollin.de/p/omeg-potentiometer-pc20bu-10-ko-linear-2	1.90 €	1.90 €	
Electronics	Bourns 93R1AR2215L	1	2	High-quality poti with 6 mm shaft	https://www.reichelt.de/drehpotentiometer-10-kohm-linear-6-mm-b	6.25 €	12.50 €	
Electronics	Sunon MF50151VX-1000U-A99	1	2	50x50x15 mm 12 V axial fan	https://www.reichelt.de/de/de/shop/produkt/luefter_12_vdc_50x50x	2.99 €	5.98 €	
Electronics	0.96" OLED display	1	2	128x64 px, SSD1306 chip	https://www.amazon.de/AZDelivery-Display-Arduino-Raspberry-gratis	6.62 €	13.24 €	
Electronics	NTC temp sensor	1	2	10k, B-value 3435	https://www.amazon.de/InLine-Temperatursensor-mit-Kabel-1m/dp/	8.48 €	16.96 €	
Electronics	Speed sensor	1	1	HC-020K wheel encoder	https://funduinoshop.com/elektronische-module/elektromotoren-un	2.57 €	2.57 €	
Electronics	LED stripe red	1	1	480 LEDs/m, 4 mm width, 2 m length	https://www.amazon.de/COB-LED-Fosingut-USB-Hintergrundbeleuch	10.99 €	10.99 €	
Electronics	LED flashlight	2	1	designed for 2xAAA battery	https://www.amazon.de/flintronic-Taschenlampe-Wasserdicht-AAA-f	7.99 €	7.99 €	
Filament	PETG filament	1 kg	2	Prusament Jet Black	https://www.prusa3d.com/product/prusament-petg-jet-black-1kg/	29.99 €	59.98 €	
Filament	PETG filament	1 kg	1	Prusament Jungle Green	https://www.prusa3d.com/product/prusament-petg-jungle-green-1kg	29.99 €	29.99 €	
Filament	TPU filament	750 g	1	BA5F TPU64D	https://www.galaxus.de/de/s1/product/basf-tpu64d-schwarz-175-mr	48.94 €	48.94 €	
Magnets	Neodymium disc magnet (south)	1	4	8x3.5x3	https://www.magnethandel.de/neodym-ringmagnete-senkung-sued-8	0.31 €	1.24 €	
Magnets	Neodymium disc magnet (north)	1	4	8x3.5x3	https://www.magnethandel.de/neodym-ringmagnete-senkung-nord-8	0.31 €	1.24 €	
Metal bars	Steel round bar	1 m	1	3 mm diameter (not more than 3 mm!)	local hardware store	5.00 €	5.00 €	
Metal bars	Steel round bar	1 m	1	4 mm diameter	local hardware store	5.00 €	5.00 €	
PCB parts	Gaptec LC78_05-2.0	1	1	5V 2A DC-DC converter	https://www.reichelt.de/dc-dc-wandler-6-5-30-vin-5-0-vout-2-a-sip-3	13.30 €	13.30 €	
PCB parts	Traco TSR 1-2433E	1	1	3V3 1A DC-DC converter	https://www.reichelt.de/de/de/shop/produkt/dc_dc-wandler_tsr_1e_	3.99 €	3.99 €	
PCB parts	Gaptec LC78_03-2.0	1	1	3V3 2A DC-DC converter	https://www.reichelt.de/de/de/shop/produkt/dc_dc-wandler_4_5_-3	13.30 €	13.30 €	
PCB parts	Quadrios resistor set	1	1	20x20 different resistors	https://www.pollin.de/p/quadrios-widerstands-set-201711p004-met	12.90 €	12.90 €	
PCB parts	Panasonic FC 100/50	1	2	Radiat Cap, 100 µF, 50 V, 5 mm spacing	https://www.reichelt.de/elko-radial-100-f-50-v-105-c-low-esr-10-x-12	0.22 €	0.44 €	
PCB parts	ECC KTS500B106K (X7R)	1	2	SMD Capacitor, 10 µF, 50 V, G2220	https://www.reichelt.de/smd-kerko-2220-10-f-50-v-10-mlcc-ecc-kt	0.99 €	1.98 €	
PCB parts	X7R-G1206 22/10	1	6	SMD Capacitor, 22 µF, 10 V, G1206	https://www.reichelt.de/smd-vielschichtkondensator-g1206-22-f-10v	0.26 €	1.56 €	
PCB parts	WAL 0805B104K500	1	3	SMD Capacitor, 100 nF, 50 V, 0805(2012)	https://www.reichelt.de/smd-kerko-0805-100-nf-50v-10-x7r-mlcc-wa	0.03 €	0.09 €	
PCB parts	WAL 0805B102K500	1	1	SMD Capacitor, 1 nF, 50 V	https://www.reichelt.de/de/de/shop/produkt/smd-kerko_0805_1_nf_	0.03 €	0.03 €	
PCB parts	X5R-G0805 10/16	1	1	SMD Capacitor, 10 µF, 16 V (0805)	https://www.reichelt.de/de/de/shop/produkt/smd-vielschichtkonden	0.05 €	0.05 €	
PCB parts	ACS712 ELCTR-30	1	1	SOIC-8 current sensor	https://www.reichelt.de/de/de/shop/produkt/stromsensor_ac_5_v	3.20 €	3.20 €	
PCB parts	IRLML 6244	1	4	SMD MOSFET	https://www.reichelt.de/de/de/shop/produkt/mosfet_n-ch_20v_6_3a	0.15 €	0.60 €	
PCB parts	WAGO 2604-3104	1	1	PCB terminal block	https://www.reichelt.de/de/de/shop/produkt/leiterplattenklemme_-_	3.50 €	3.50 €	
PCB parts	20-pin socket terminal strip	1	4	2.54 mm spacing, height 8.5 mm	https://www.reichelt.de/20pol-buchsenleiste-gerade-rm-2-54-h-8-5m	0.30 €	1.20 €	
PCB parts	10-pin socket terminal strip	1	2	2.54 mm spacing, height 8.5 mm	https://www.reichelt.de/10pol-buchsenleiste-gerade-rm-2-54-h-8-5m	0.22 €	0.44 €	
PCB parts	IMAXX H7810	1	1	miniOTO fuse holder	https://www.reichelt.de/kfz-sicherungshalter-minioto-30-a-125-v-pri	0.99 €	0.99 €	
PCB parts	IMAXX F7030	1	1	miniOTO fuse, 30 A	https://www.reichelt.de/kfz-sicherung-minioto-30-a-gruen-imaxx-f70	0.33 €	0.33 €	
PCB parts	IRLZ 44N	1	3	n-Channel logic level MOSFET, TO-220	https://www.reichelt.de/mosfet-n-ch-55v-47a-110w-to-220ab-irlz-44	0.70 €	2.10 €	
PCB parts	IRFP7430PBF	1	1	n-Channel power MOSFET, TO-247	https://www.reichelt.de/mosfet-n-kanal-40-v-195-a-rds-on-0-001-oh	3.10 €	3.10 €	
PCB parts	1N-5819	1	1	Diode	https://www.reichelt.de/de/de/shop/produkt/schottkydiode_40_v_1_	0.05 €	0.05 €	
PCB parts	PCA9685	1	1	TSSOP-28 IC, PWM driver	https://www.conrad.de/de/p/nxp-semiconductors-pca9685pw-112-p	3.49 €	3.49 €	
PCBs	Manufacturing of car PCB	3	1	Gerber files on GitHub	https://aisler.net/	30.19 €	30.19 €	
PCBs	Manufacturing of RC PCB	3	1	Gerber files on GitHub	https://aisler.net/	22.98 €	22.98 €	
Screws & nuts	M3x6	100	1	cylinder head (18 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	3.82 €	3.82 €	
Screws & nuts	M3x8	100	2	cylinder head (153 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	3.58 €	7.16 €	
Screws & nuts	M3x10	100	1	cylinder head (56 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	3.58 €	3.58 €	
Screws & nuts	M3x12	100	1	cylinder head (45 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	3.90 €	3.90 €	
Screws & nuts	M3x16	100	1	cylinder head (38 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	4.37 €	4.37 €	
Screws & nuts	M3x20	100	1	cylinder head (25 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	5.54 €	5.54 €	
Screws & nuts	M3x22	100	1	cylinder head (24 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	6.00 €	6.00 €	
Screws & nuts	M3x25	100	1	cylinder head, fully threaded (20 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	20.60 €	20.60 €	
Screws & nuts	M3x30	100	1	cylinder head (9 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	7.57 €	7.57 €	
Screws & nuts	M3x35	100	1	cylinder head (4 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	8.66 €	8.66 €	
Screws & nuts	M3x50	100	1	cylinder head (2 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	11.70 €	11.70 €	
Screws & nuts	M3 nut	100	2	198 needed	https://shop.der-schraubenladen.de/DIN-439-ISO-4035-Sechskantm	3.90 €	7.80 €	
Screws & nuts	M3 washer	100	1		https://shop.der-schraubenladen.de/DIN-125-A-ISO-7089-Unterlegs	2.95 €	2.95 €	
Screws & nuts	M3 locknut	100	1	48 needed	https://shop.der-schraubenladen.de/DIN-985-ISO-10511-Sechskant	2.95 €	2.95 €	
Screws & nuts	M3 threaded insert	100	2	157 needed	https://www.ruthex.de/collections/gewindeeinsetze/products/ruthex	8.99 €	17.98 €	
Screws & nuts	M3x10	100	1	countersunk	https://www.amazon.de/dp/B07YZMB95S/ref=pe_27091401_487027	7.21 €	7.21 €	
Screws & nuts	M4x8	100	1	cylinder head (2 needed)	https://shop.der-schraubenladen.de/DIN-912-ISO-4762-Zylinderschr	4.83 €	4.83 €	
Springs	0X-DF1720	1	4	For rear shock absorbers	https://www.febrotec.de/de-DE/druckfedern/schraubendruckfedern/	2.79 €	11.16 €	
Springs	0X-DF1709	1	2	For front shock absorbers	https://www.febrotec.de/de-DE/druckfedern/schraubendruckfedern/	2.79 €	5.58 €	
Springs	7x19 mm spring	30	1	Box with various sizes	https://www.amazon.de/Kraftmann-9806-Federn-Sortiment-Druckfed	7.28 €	7.28 €	
Wires	0.25mm ² stranded wire	100 m	1	black	https://www.pollin.de/p/rautronic-litze-1x0-25-100m-spule-schwarz-10	16.70 €	16.70 €	
Wires	2.5mm ² stranded wire	10 m	1	black	https://www.pollin.de/p/rautronic-silikon-litze-2-5-mm2-schwarz-10	10.50 €	10.50 €	
Wires	2.5 mm ² stranded wire	10 m	1	red	https://www.pollin.de/p/rautronic-silikon-litze-2-5-mm2-rot-10			