

Materiales para la construcción de 1 agente robot de PROE

Cantidad	Nombre	Número parte	Link	Costo CR /u
1	Batería Lipo 2Ah	ADA-328	https://www.crcibernetica.com/lithium-ion-polymer-battery-3-7v-2500mah/	\$14,95
1	Boost	ADA-1903	https://www.crcibernetica.com/powerboost-500-basic-5v-usb-boost-500ma-from-1-8v/	\$10,95
1	Puente H (módulo)	TB6612FNG	https://www.crcibernetica.com/generic-motor-driver-1a-dual-tb6612fng/	\$4,95
2	Motores DC encoder	ROB-CB0N20	https://www.crcibernetica.com/n20-gearmotor-with-encoder-and-wheel/	\$14,95
2	Soporte motores	ROB-CB02443	https://www.crcibernetica.com/micro-gearmotor-support-bracket/	\$0,75
1	Ball caster	ROB-CB1818	https://www.crcibernetica.com/3pi-n20-ball-caster/	\$2,75
1	uC Feather M0 RFM69	ADA-3176	https://www.crcibernetica.com/adafruit-feather-m0-rfm69-packet-radio-868-or-915-mhz/	\$24,95
1	Magnetómetro	IM130918001	https://www.crcibernetica.com/hmc5883l-triple-axis-compass-magnetometer-sensor-module/	\$9,95
1	uC Blue Pill	DEV-CB02143	https://www.crcibernetica.com/stm32f103c8t6-arm-stm32-blue-pill-microcontroller-board/	\$4,95
1	Servomotor	MG90S	https://www.crcibernetica.com/mg90s-micro-servo-with-metal-gears/	\$6,95
1	Sensor IR adelante	SEN-CB0006	https://www.crcibernetica.com/infrared-obstacle-avoidance-module/	\$2,95
2	Sensor IR abajo	SEN-CB0005	https://www.crcibernetica.com/track-sensor-module/	\$1,95
1	Sensor Temperatura	SEN-10988	https://www.crcibernetica.com/tmp36-temperature-sensor/	\$1,95
1	Sensor sharp	IM130619002	https://www.crcibernetica.com/sharp-gp2y0a21yk-distance-measuring-sensor/	\$16,95
1	Pines	PRT-00116	https://www.crcibernetica.com/break-away-headers-straight/	\$1,95
1	Interruptor general	COM-CB0372	https://www.crcibernetica.com/slide-switch/	\$1,25
1	Interruptor pequeño	COM-09609	https://www.crcibernetica.com/spdt-slide-switch/	\$0,95
1	LED azul	COM-11372	https://www.crcibernetica.com/led-basic-blue-5mm/	\$0,15
1	LED rojo	COM-09594	https://www.crcibernetica.com/led-basic-yellow-5mm/	\$0,15
1	LED amarillo	COM-09590	https://www.crcibernetica.com/led-basic-red-5mm/	\$0,15
1	IMU	MPU-6050	https://www.crcibernetica.com/mpu-6050-triple-axis-accelerometer-and-gyroscope-module/	\$6,95
1	Memoria eeprom	AT24C16	https://www.microjpm.com/products/at24c16-two-wire-serial-eeprom/	\$1,40
3	Capacitores poliester 100nF		https://www.microjpm.com/products/a100if-100v-capacitor-poliester-metalizado/	\$0,40
3	Header hembra 40 pines 1 fila		https://www.microjpm.com/products/conector-hembra-de-40pins-2-54mm-una-fila/	\$0,80
2	Conector de motor hembra	JST-ZH	https://www.ebay.com/itm/JST-ZH-1-5mm-Pitch-4-Pin-Right-Angle-Male-PCB-Connector-Shrou	-
1	Conector de la batería	JST-PH	https://www.ebay.com/itm/JST-PH-2-0mm-Pitch-2-Pin-Male-Right-Angle-Connector-Shrouded-I	-
1	Base DIP 8 pines		https://www.ebay.com/itm/100PCS-DIP8-Integrated-Circuit-8-Pin-IC-Sockets-Adaptor-Solder-Ty	-

Otros (Estos componentes se comparten entre varios robots)

Cantidad	Nombre	Modelo	Link	Costo CR
	Programador Blue Pill	DEV-CB0468	https://www.crcibernetica.com/st-link-v2-mini-programmer-color-may-vary/	\$5,95
	Cable USB	CAB-10215	https://www.crcibernetica.com/usb-microb-cable-80-cm/	\$4,95
	Caja Espaciadores y tornillos	TOL-CB0513	https://www.crcibernetica.com/m3-nylon-screw-black-hex-screw-nut-nylon-pcb-standoff-assortn	\$15,95
	Caja Resistencias	COM-10969	https://www.crcibernetica.com/resistor-kit-1-4w-500-total/	\$11,95