

|  ARDOBOT ROBÓTICA SAS NIT: 901061066-5 COTIZACION ELECTRÓNICA | | | | | |
|---|---|-------------|---|------------|--|
| FECHA | | | 14 de Abril 202 | | Efrain Mariotte Parra |
| Señores | | | SENA REGIONAL TOLIMA CENTRO DE LA INDUSTRIA Y CONSTRUCCIÓN TECNOACADEMIA TOLIMA | | Instructor |
| NIT | | | 8.999.990.344 | | 3103954284 |
| Telefono/Fax: | | | (8) 2709600 | | egmarriotte@sena.edu.co |
| Item | Descripción | Vr unitario | Cantidad | Iva Un 19% | Valor Total |
| 1 | Lámpara UV 254/365 nm | \$875.453 | 1 | \$166.336 | \$875.453 |
| 2 | Arduino UNO R3 compatible ATmega328P + CH340 | \$31.748 | 15 | \$90.481 | \$476.217 |
| 3 | Batería inteligente DJI RoboMaster S1 Part 3 | \$249.275 | 1 | \$47.362 | \$249.275 |
| 4 | Batería VEX IQ 2nd Generation 7.2V 2000mAh | \$325.636 | 1 | \$61.871 | \$325.636 |
| 5 | Kit 3 baterías 3.8V DJI Tello + cargador 3 en 1 | \$419.365 | 6 | \$478.077 | \$2.516.192 |
| 6 | Estaño carrete 1LB | \$238.199 | 4 | \$181.031 | \$952.796 |
| 7 | NodeMCU ESP8266 Amica V1.0 Rev2 | \$33.479 | 10 | \$63.611 | \$334.793 |
| 8 | Shield NodeMCU L293 | \$20.674 | 10 | \$39.281 | \$206.745 |
| 9 | ESP32-CAM AI Thinker con base programadora | \$70.083 | 10 | \$133.158 | \$700.833 |
| 10 | Robot de fútbol Tart LEGO Orange Tart Family Pack | \$1.407.734 | 1 | \$267.469 | \$1.407.734 |
| 11 | Botón pulsador plano arcade con LED 60 mm | \$15.242 | 10 | \$28.959 | \$152.418 |
| 12 | Robot Edison V3 con batería recargable | \$251.087 | 8 | \$381.652 | \$2.008.694 |
| 13 | Batería recargable litio 9V 800mA | \$68.113 | 8 | \$103.532 | \$544.906 |
| 14 | Makey Makey clásico por JoyLabz | \$469.621 | 5 | \$446.140 | \$2.348.104 |
| 15 | Kit medidor Pro análogo de pH SEN0161 | \$118.058 | 1 | \$22.431 | \$118.058 |
| 16 | Baquela virgen 10x20 cm fibra de vidrio una cara | \$9.027 | 30 | \$51.452 | \$270.802 |
| 17 | Plaqueta virgen 5x5 cm fibra de vidrio | \$557 | 30 | \$3.175 | \$16.713 |
| 18 | Plaqueta virgen 10x15 cm fibra de vidrio | \$7.889 | 30 | \$44.969 | \$236.680 |
| 19 | Cautín 20W 110V KN20 | \$69.116 | 30 | \$393.959 | \$2.073.466 |
| 20 | Módulo grabación y reproducción voz ISD1760 | \$30.098 | 2 | \$11.437 | \$60.197 |
| 21 | Sensor seguidor de línea 8 canales | \$45.226 | 8 | \$68.744 | \$361.809 |
| 22 | Memoria microSD 128GB Clase 10 | \$188.728 | 6 | \$215.150 | \$1.132.367 |
| 23 | Micrófono de solapa inalámbrico Android USB-C | \$138.094 | 4 | \$104.951 | \$552.374 |
| 24 | Sensor de pH analógico con electrodo industrial Arduino | \$233.126 | 2 | \$88.588 | \$466.252 |
| 25 | Punta para cautín 4.8 mm | \$33.092 | 20 | \$125.751 | \$661.848 |
| 26 | Base metálica para cautín tipo lápiz BCE | \$22.588 | 20 | \$85.835 | \$451.762 |
| 27 | Resistencias carbón 1K/4.7K/33K/15K/10K/100K 1/4W | \$5.190 | 1000 | \$986.100 | \$5.190.000 |
| 28 | Resistencias carbón 220/330/500 ohm 1/4W | \$2.595 | 1000 | \$493.050 | \$2.595.000 |
| 29 | Módulo adaptador I2C para LCD 16x2 MUL1602 | \$7.938 | 20 | \$30.165 | \$158.765 |
| 30 | Micro:bit Maqueen robot educacional | \$143.831 | 5 | \$136.640 | \$719.156 |
| 31 | ESP32s Board WiFi Bluetooth ESP-WROOM-32 | \$42.319 | 12 | \$96.488 | \$507.830 |
| 32 | Pelacable Proskit 6PK223 | \$69.801 | 30 | \$397.866 | \$2.094.031 |
| 33 | Protoboard 830 puntos 170x60 mm | \$13.951 | 30 | \$79.520 | \$418.527 |
| 34 | Celdas 18650 alta descarga | \$55.517 | 60 | \$632.891 | \$3.331.007 |
| 35 | Micro servo 9g metal MG90S | \$22.174 | 80 | \$337.040 | \$1.773.896 |
| 36 | Sensor ultrasonido HC-SR04 | \$13.829 | 10 | \$26.274 | \$138.286 |
| 37 | Matriz LED 8x8 + MAX7219 | \$9.900 | 10 | \$18.810 | \$99.000 |
| 38 | Buzzer activo 5V | \$7.202 | 50 | \$68.423 | \$360.119 |
| 39 | Pulsador 6x6 mm tact switch 4 pines | \$1.363 | 20 | \$5.181 | \$27.268 |
| 40 | Módulo power/charge 16340 5V/3.3V | \$53.899 | 10 | \$102.407 | \$538.985 |
| 41 | Batería Li-ion 16340 3.7V protegida | \$38.351 | 12 | \$87.439 | \$460.206 |
| 42 | Batería LiPo 2S >=2500mAh XT60 | \$412.495 | 12 | \$940.489 | \$4.949.944 |
| 43 | Batería LiPo 3S >=3000mAh XT60 | \$326.047 | 8 | \$495.591 | \$2.608.374 |
| 44 | Cargador balanceador SkyRC iMAX B6AC | \$444.492 | 4 | \$337.814 | \$1.777.968 |
| 45 | Alarma bajo voltaje LiPo 1-8S con buzzer | \$23.509 | 20 | \$89.336 | \$470.188 |
| 46 | Medidor de celdas Cell checker 1-8S | \$115.934 | 10 | \$220.275 | \$1.159.343 |
| 47 | Cargador 18650 8 bahías | \$505.833 | 2 | \$192.216 | \$1.011.666 |
| 48 | Detector de humo autónomo 85 dB | \$633.881 | 1 | \$120.437 | \$633.881 |
| 49 | Manta ignífuga fibra de vidrio 1.2x1.8 m | \$114.679 | 1 | \$21.789 | \$114.679 |
| 50 | Terminal block KF301 2P 5.08 mm | \$1.406 | 100 | \$26.717 | \$140.615 |
| 51 | Terminal block KF301 3P 5.08 mm | \$1.651 | 60 | \$18.822 | \$99.064 |
| 52 | Carrete soldadura 60/40 ~1/2 libra | \$108.992 | 4 | \$82.834 | \$435.970 |
| 53 | Carrete soldadura 60/40 0.5mm 100g | \$115.022 | 2 | \$43.708 | \$230.044 |
| 54 | Flux no-clean jeringa 10cc | \$65.395 | 6 | \$74.550 | \$392.369 |
| 55 | Malla desoldadora 2.0mm | \$225.213 | 10 | \$427.904 | \$2.252.127 |
| 56 | Tercera mano con lupa | \$59.235 | 4 | \$45.018 | \$236.939 |

| | | | | | |
|-----|---|-------------|----|-----------|-------------|
| 57 | Lámpara con lupa LED para electrónica | \$198.000 | 1 | \$37.620 | \$198.000 |
| 58 | Kit tubo termoencogible 100 pcs 2:1 surtido | \$24.998 | 2 | \$9.499 | \$49.996 |
| 59 | Estaño para soldadura 0.8mm 100g | \$112.717 | 2 | \$42.832 | \$225.433 |
| 60 | ESP32 DevKit V1 30-pin | \$41.605 | 10 | \$79.049 | \$416.046 |
| 61 | Módulo RTC DS3231 | \$24.125 | 2 | \$9.167 | \$48.250 |
| 62 | Convertidor DC-DC 24V a 5V 5A | \$46.330 | 3 | \$26.408 | \$138.990 |
| 63 | Interruptor termomagnético DC 2P 63A >=500VDC | \$66.404 | 2 | \$25.233 | \$132.808 |
| 64 | Protector sobretensión AC 2P 275V Tipo 2 | \$74.751 | 2 | \$28.405 | \$149.502 |
| 65 | Interruptor diferencial 2P 20A 30mA | \$41.900 | 2 | \$15.922 | \$83.800 |
| 66 | DPS DC solar 2P 600V Tipo 2 | \$174.481 | 2 | \$66.303 | \$348.963 |
| 67 | Breaker DC 2P 125A riel DIN | \$165.368 | 2 | \$62.840 | \$330.737 |
| 68 | Seccionador DC FV 2P 32A 1000V | \$109.827 | 2 | \$41.734 | \$219.654 |
| 69 | Riel DIN 35mm 1m | \$38.704 | 2 | \$14.707 | \$77.408 |
| 70 | Portafusible ANL + fusible 200A | \$48.000 | 2 | \$18.240 | \$96.000 |
| 71 | Kits terminales tubulares 800 uds | \$31.900 | 2 | \$12.122 | \$63.800 |
| 72 | Breaker DC 2P 63A >=500V solar | \$71.841 | 2 | \$27.300 | \$143.683 |
| 73 | Breaker AC bipolar 2x20A riel DIN | \$27.955 | 2 | \$10.623 | \$55.910 |
| 74 | RCD/Interruptor diferencial 2P 40A 30mA | \$330.527 | 2 | \$125.600 | \$661.055 |
| 75 | Varilla cobre/copperweld 5/8 2.4m | \$59.900 | 1 | \$11.381 | \$59.900 |
| 76 | Conector varilla a cable 5/8 grapa | \$14.875 | 1 | \$2.826 | \$14.875 |
| 77 | Barra equipotencial cobre con aisladores | \$321.010 | 1 | \$60.992 | \$321.010 |
| 78 | Bornera tierra riel DIN 8 posiciones | \$9.928 | 1 | \$1.886 | \$9.928 |
| 79 | Cable Micro-USB A-M a Micro-USB-B >=1m | \$6.459 | 30 | \$36.816 | \$193.770 |
| 80 | Arduino Mega 2560 compatible + CH340 | \$87.287 | 10 | \$165.844 | \$872.866 |
| 81 | Módulo LM2596 buck ajustable | \$7.597 | 20 | \$28.868 | \$151.938 |
| 82 | Sensor HC-SR04 ultrasonido | \$11.233 | 15 | \$32.013 | \$168.491 |
| 83 | Motor TT 3-6V motorreductor | \$12.093 | 20 | \$45.954 | \$241.863 |
| 84 | Tarjeta embebida de desarrollo NVIDIA Jetson Nano Developer Kit B01, 4GB, o equivalente técnicamente compatible. Debe incluir módulo Jetson Nano 4GB, carrier board con GPIO/USB/CSI/HDMI/DisplayPort, Ethernet Gigabit, alimentación 5V 4A, almacenamiento por microSD y disipador preinstalado. | \$884.079 | 2 | \$335.950 | \$1.768.159 |
| 85 | Fuente de alimentación 5V 4A para Jetson Nano con conector barrel 5.5 x 2.1 mm, centro positivo, o equivalente. | \$167.988 | 2 | \$63.836 | \$335.977 |
| 86 | Raspberry Pi 5 16GB | \$1.210.062 | 3 | \$689.735 | \$3.630.186 |
| 87 | Acelerador de IA para Raspberry Pi 5 basado en Hailo, referencia SC1791 o equivalente funcional vigente para Raspberry Pi 5. Debe ser compatible con Raspberry Pi 5 y orientado a inferencia local en visión por computador. | \$493.693 | 2 | \$187.603 | \$987.387 |
| 88 | UPS HAT para Raspberry Pi 5, compatible con baterías 18650, con gestión de energía y apagado seguro, referencia X728 V2.5 o equivalente compatible con Raspberry Pi 5 | \$341.627 | 2 | \$129.818 | \$683.254 |
| 89 | Cámara para RPi5 OV5647 5MP | \$72.044 | 2 | \$27.377 | \$144.087 |
| 90 | Adaptador Raspberry 5V 3A micro-B | \$140.907 | 2 | \$53.545 | \$281.814 |
| 91 | Cámara Logitech C920s Pro | \$425.533 | 2 | \$161.702 | \$851.065 |
| 92 | Módulo UPS NVIDIA Jetson Nano T208 | \$177.611 | 2 | \$67.492 | \$355.221 |
| 93 | Batería VEX IQ 2nd Gen Li-ion 2000mAh USB-C | \$325.678 | 2 | \$123.758 | \$651.355 |
| 94 | Sensor distancia ToF VEX IQ 2nd Gen | \$199.548 | 2 | \$75.828 | \$399.097 |
| 95 | Motor smart VEX IQ | \$151.351 | 2 | \$57.513 | \$302.702 |
| 96 | Kit para fabricación y mantenimiento de cables modulares RJ11/RJ12/RJ45, compuesto como mínimo por: crimpadora modular, cable telefónico multipar, y conectores RJ11 6P4C. | \$484.261 | 2 | \$184.019 | \$968.523 |
| 97 | Driver TB6612FNG módulo | \$36.344 | 20 | \$138.105 | \$726.870 |
| 98 | Proto Shield Mega | \$45.992 | 40 | \$349.541 | \$1.839.687 |
| 99 | Bornero tornillo 5.08mm KF301 2P/3P | \$1.890 | 80 | \$28.727 | \$151.196 |
| 100 | Kit de protección automotriz DC compuesto por porta-fusible en línea tipo ATO/ATC con tapa y surtido de fusibles 5A, 7.5A, 10A y 15A, o equivalente. | \$48.448 | 16 | \$147.283 | \$775.173 |
| 101 | Interruptor principal DC para panel, tipo rocker, capacidad mínima 10A en DC, referencia KCD4 o equivalente. | \$97.009 | 25 | \$460.791 | \$2.425.218 |
| 102 | Diodo Schottky anti-inversión 10A/45V | \$112.186 | 25 | \$532.883 | \$2.804.649 |
| 103 | BMS 2S con balanceo 10A | \$17.385 | 10 | \$33.031 | \$173.845 |
| 104 | BMS 2S con balanceo 15A | \$25.112 | 10 | \$47.713 | \$251.120 |
| 105 | Porta-baterías 2x18650 2S | \$12.872 | 20 | \$48.913 | \$257.436 |
| 106 | Capacitor electrolítico 470-1000uF >=16V 105C | \$1.523 | 40 | \$11.574 | \$60.917 |
| 107 | Capacitor cerámico 100nF >=25-50V | \$1.521 | 35 | \$10.115 | \$53.237 |
| 108 | Diodo TVS unidireccional para sistemas 2S (8.4V cargada), VRWM acorde a 9-10V, potencia mínima 600W, encapsulado SMBJ o superior, o equivalente. | \$12.500 | 30 | \$71.250 | \$375.000 |
| 109 | Cable silicona potencia 16-18AWG rojo/negro | \$17.626 | 50 | \$167.449 | \$881.310 |
| 110 | Termorretráctil surtido 2-8mm 2:1 | \$15.620 | 2 | \$5.936 | \$31.241 |
| 111 | Kit de organización de cableado compuesto por bases adhesivas para bridas y bridas de nylon surtidas, o equivalente. | \$24.000 | 2 | \$9.120 | \$48.000 |
| 112 | Arduino Nano compatible V3 ATmega328P + CH340 | \$31.379 | 10 | \$59.620 | \$313.791 |
| 113 | Screw Shield para Nano | \$16.949 | 10 | \$32.203 | \$169.492 |
| 114 | Módulo Bluetooth HC-05 | \$21.096 | 10 | \$40.082 | \$210.958 |
| 115 | Kit cables Dupont 120 pcs 20cm MM/MF/FF | \$163.468 | 1 | \$31.059 | \$163.468 |

| | | | | | |
|---|---|--|-----|-----------|-----------------|
| 116 | Kit tornillería M3 + separadores | \$75.763 | 2 | \$28.790 | \$151.526 |
| 117 | Conector XT60 pareja | \$5.408 | 50 | \$51.376 | \$270.400 |
| 118 | Extensiones de balance JST-XH para baterías 2S y 3S, longitud 150–200 mm, cable flexible, pack o surtido equivalente. | \$36.254 | 3 | \$20.665 | \$108.763 |
| 119 | Cable silicona AWG14 rojo/negro por metro | \$9.036 | 40 | \$68.675 | \$361.446 |
| 120 | Shield prototipo Arduino UNO R3 | \$11.408 | 40 | \$86.704 | \$456.338 |
| 121 | Shield prototipo Arduino Mega 2560 | \$18.583 | 40 | \$141.229 | \$743.310 |
| 122 | Pin header macho breakaway 40p | \$958 | 150 | \$27.313 | \$143.754 |
| 123 | Header hembra breakaway 40p | \$3.557 | 100 | \$67.589 | \$355.733 |
| 124 | Pin header 90° 1x40 | \$1.071 | 50 | \$10.175 | \$53.550 |
| 125 | Cables Dupont macho-hembra 10cm x40 | \$7.597 | 6 | \$8.660 | \$45.581 |
| 126 | Conector JST XH 2.54 mm de 2 pines con cable de aproximadamente 20 cm, en presentación macho/hembra o set equivalente compatible. | \$3.714 | 30 | \$21.172 | \$111.431 |
| 127 | Kit tornillos+tuercas M3 surtido ~340 pcs | \$75.763 | 2 | \$28.790 | \$151.526 |
| 128 | Módulo MOSFET 4CH Logic-Level 24V | \$58.905 | 2 | \$22.384 | \$117.810 |
| 129 | Módulo 4-20mA a voltaje 0-3.3V | \$22.240 | 2 | \$8.451 | \$44.479 |
| 130 | Sensor corriente Hall 100A ACS758/WCS1600 | \$61.004 | 6 | \$69.544 | \$366.023 |
| 131 | Módulo ADS1115 16-bit I2C | \$33.800 | 2 | \$12.844 | \$67.600 |
| 132 | Cables jumper Dupont kit 40 hilos 10cm | \$7.597 | 20 | \$28.868 | \$151.938 |
| 133 | Expansion board ESP32 38p con bornes | \$20.571 | 20 | \$78.171 | \$411.429 |
| 134 | Imanes de neodimio set de 10 | \$17.760 | 20 | \$67.489 | \$355.206 |
| TIEMPO DE ENTREGA: | | | | SUBTOTAL | \$70.827.472,00 |
| VALIDEZ 30 días sujeto a cambios sin previo aviso | | | | Iva | \$16.613.851,00 |
| FORMA DE PAGO: contado | | | | TOTAL | \$87.441.323,00 |
| | | | | | |
| Observaciones: | | Entrega 30 días calendario | | | |
| Cordialmente, Javier Madrigal | | | | | |
| E-mail: | | ventas@ardobot.com | | | |
| FECHA | | VERSION | | | |
| 14 de Abril 2026 | | 1 | | | |