

## Mobilnye roboty na baze Arduino (+ nabor elektronnykh komponentov)



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### Reviews

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(Mrs. Maybelle Gleason DDS)

## MOBILNYE ROBOTY NA BAZE ARDUINO (+ NABOR ELEKTRONNYKH KOMPONENTOV)

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BKHV-Peterburg. Condition: new. Esli vy khotite nauchitsja konstruirovat mobilnogo robota, no u vas poka net znaniy, opyta, detalej i elektronnykh komponentov, to etot nabor razrabotan spetsialno dlja Vas. V ego sostav vkhodit plata Arduino, neobkhodimye elektronnye komponenty, dvigateli, 4-kh kolesnoe shassi, a takzhe populjarnaja kniga M.Momota "Mobilnye roboty na baze Arduino".Vy uznaete, iz kakikh uzlov состоit prostejshij robot i kak vypolnjat elektricheskie soedinenija. Nauchites programirovat kontroller Arduino i podkljuchat razlichnye datchiki dlja vzaimodejstvija robota s vneshnim mirom. Izuchite khodovuju chast i osnovy upravlenija dvigateljami. Uznaete, kak organizovat distantsionnoe upravlenie robotom s pomoshchju smartfona s operatsionnoj sistemoj Android ili s pulta distantsionnogo upravlenija. Smozhete sobrat razlichnykh robotov, postroennykh na osnove prostoj bazovoj modeli i sposobnykh vypolnjat razlichnye zadachi: nakhodit vykhod iz labirinta, igrat v kegelring, dvigatsja po kompasu, orientirovatsja v prostranstve i dr.Vy smozhete:- izuchit osnovy programirovanija kontrollera Arduino- skonstruirovat bazovuju model mobilnogo robota- distantsionno upravljat robotom s pomoshchju IR-pulta ili smartfona Android- izuchit bazovye algoritmy upravlenija robotom- modernizirovat i obuchit bazovogo robota dvizheniju po linii, vykhodu iz labirinta, puteshestviju po komnate, igre v kegelringSostav nabora:- Kontrollerx1 Arduino UNO R3 + kabel USB- Datchikix1 Ultrazvukovoj dalnomer HC-SR04x3 Datchik prepjatstvijax3 Datchik linii TCRT 5000x1 Elektronnyj kompas GY-271 (HMC5883L)- Elementy krepzhax1 Maketnaja plata malajax40 Provoda 20 sm s razemami "mama-mama"x8 Provoda 20 sm tonkie mnogozhilnyex1 Vyklyuchatel pitanija- Platy rasshirenijax1 Plata rasshirenija V5 (UNO Sensor Shield V5, APC220)x1 Drajver dvigatelej 2-kh kanalnyj na baze L298N- Mekhanicheskie detalix2 Shassi mobilnogo robota 4WDx4 Kolesax1 Kronshtejn dlja ustanovki datchika rasstojanija- Dvigatelix4 Dvigateli kolesx1 Servomotor analogovyj SG90- Svetodiodyx5 Svetodiod krasnyjx5 Svetodiod zhjoltyj- Komponenty dlja upravlenijax1 Pult upravlenija s IK priemnikomx1 Modul Bluetooth HC-05- Elementy pitanija, zarjadnoe ustrojstvox2 Akkumuljatory litievij tipa 18650x1 Otsek dlja 2-kh akkumuljatorov tipa 18650x1 Zarjadnoe ustrojstvo dlja akkumuljatorov - Bazovye komponentyx5 Kondensator 0,1 mkFx10 Rezistor 220 Om- Elementy krepzhax4 Stojki dlja krepnenija dvigatelejx68 Bolty, gajki, shpilkiTak...

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