

MÃO NA MASSA

Reúna-se com os colegas e, com o Kit de Robótica, construam um Robô Espião.

Robô Espião

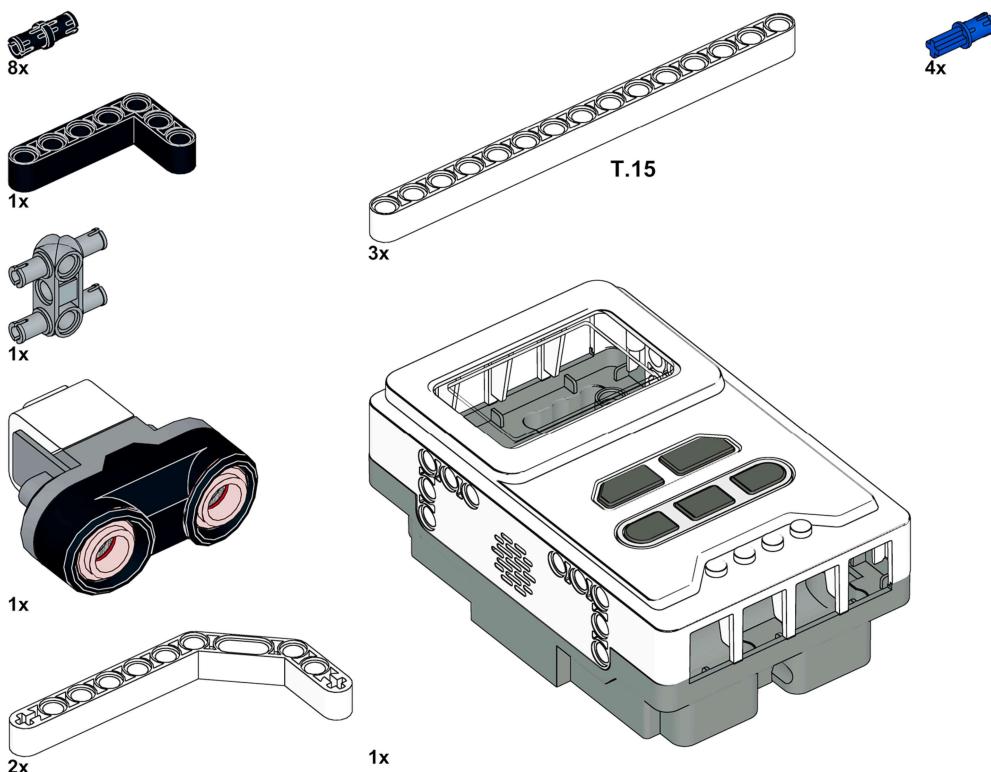
© Acervo da editora



MANUAL PASSO A PASSO

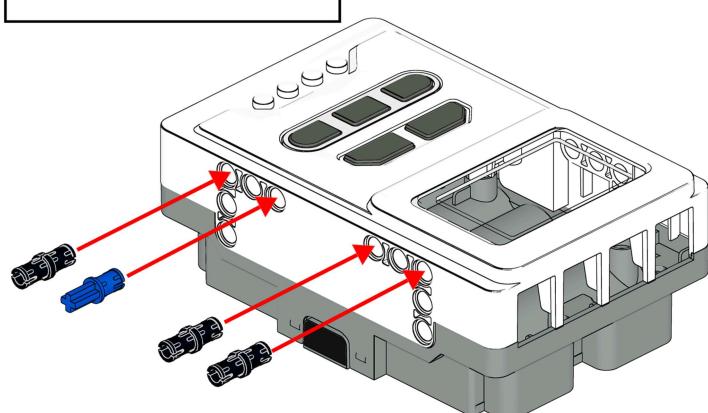
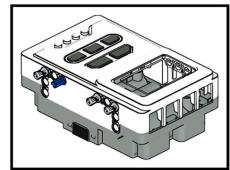
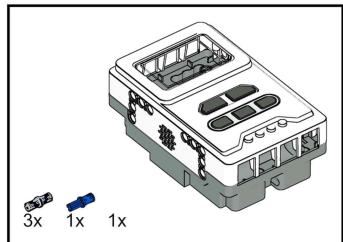
MONTAGEM

Antes de começar, faça um checklist das peças de que precisará para montar seu Robô Espião.

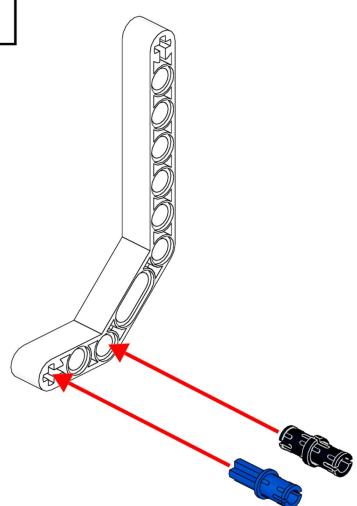
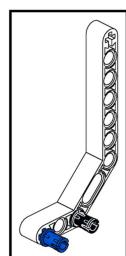
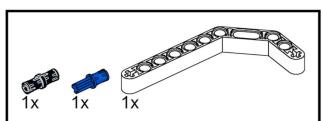


A seguir, acompanhe o passo a passo da montagem do Robô Espião.

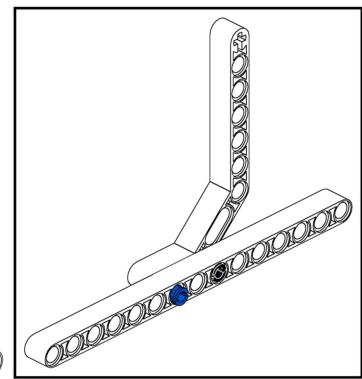
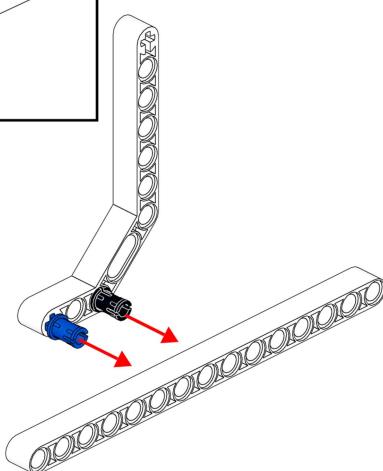
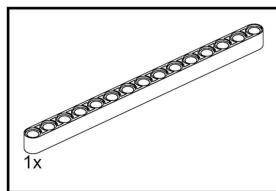
1



2

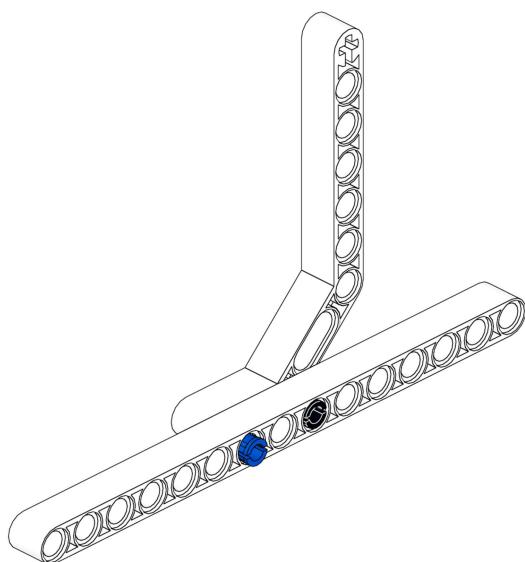


3

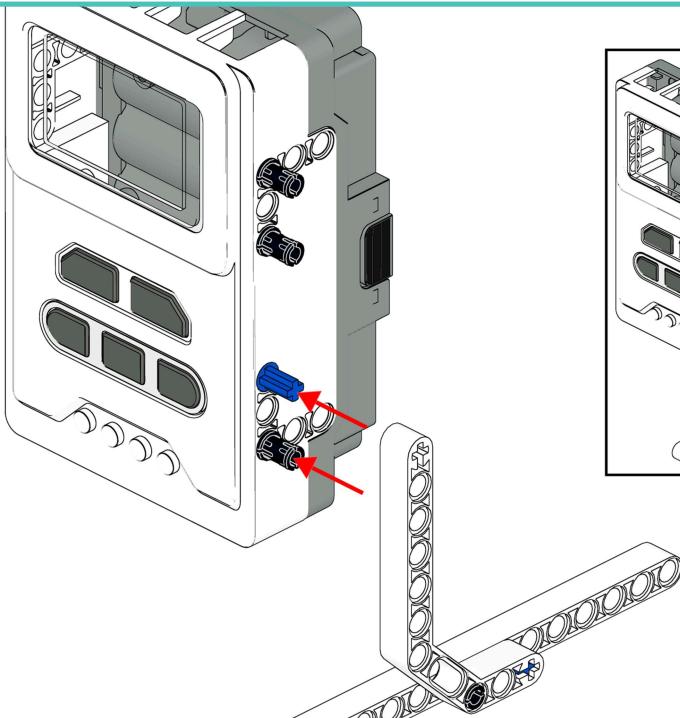


15 1 : 1

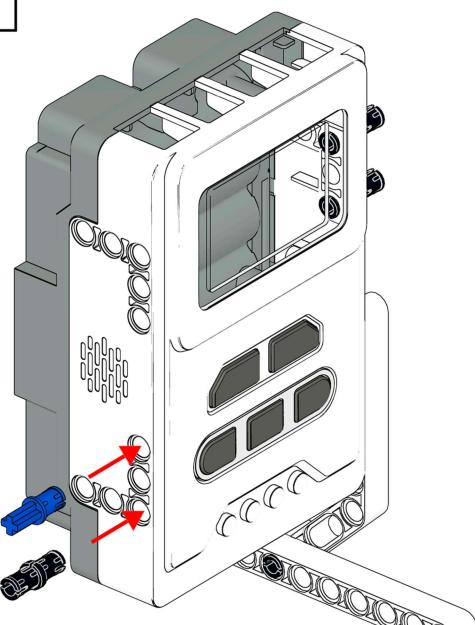
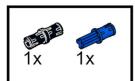
4

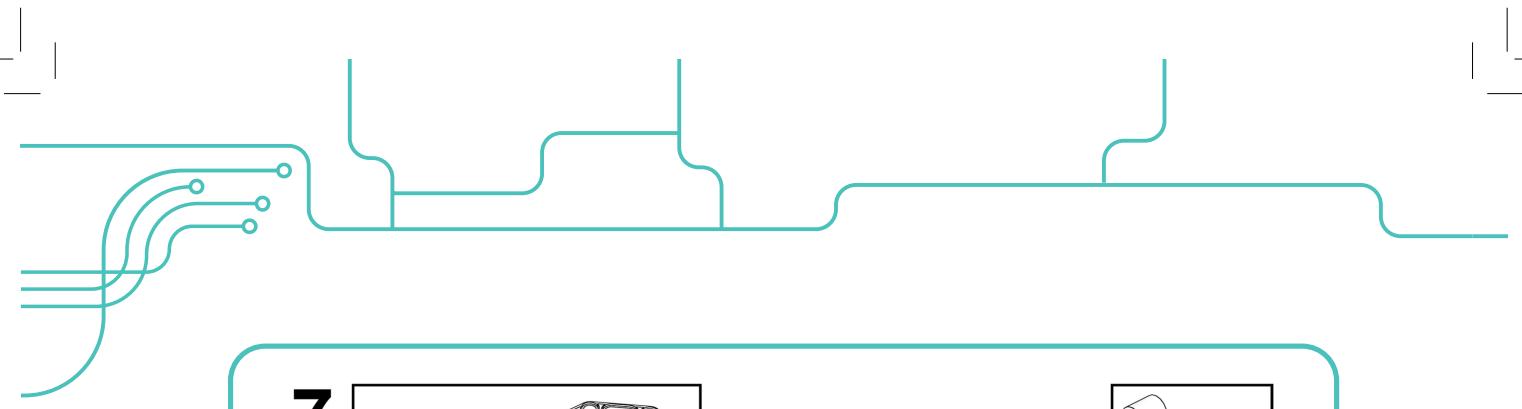


5

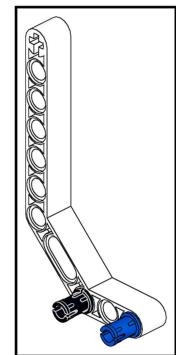
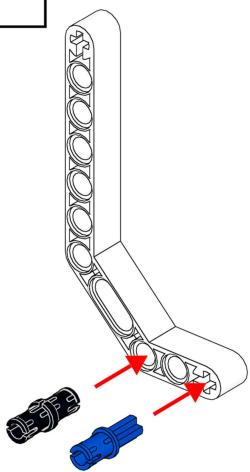
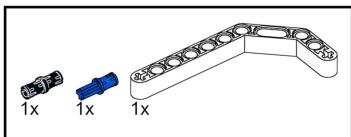


6

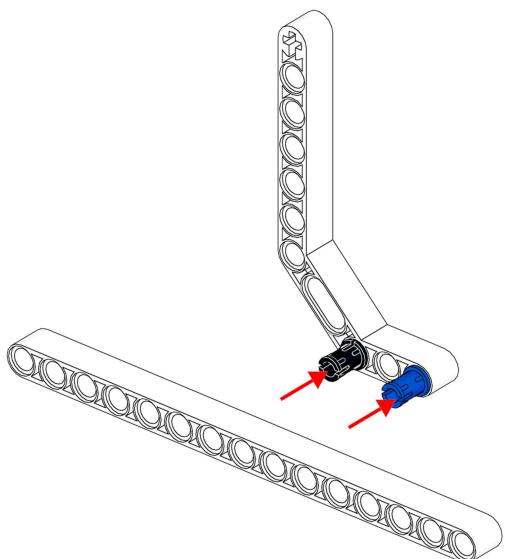
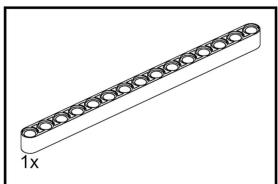




7



8

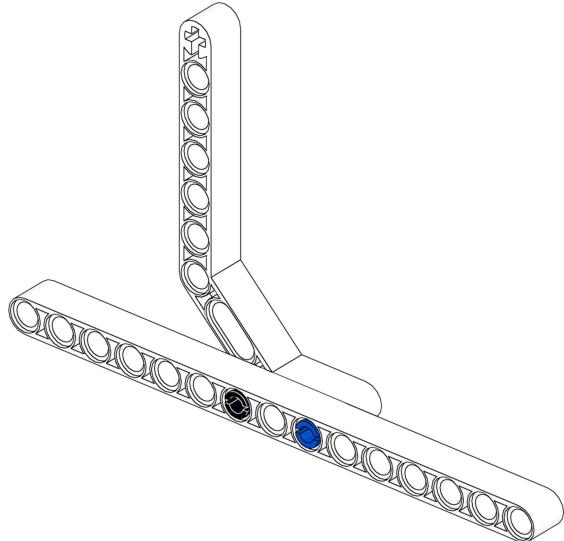


15 1 : 1

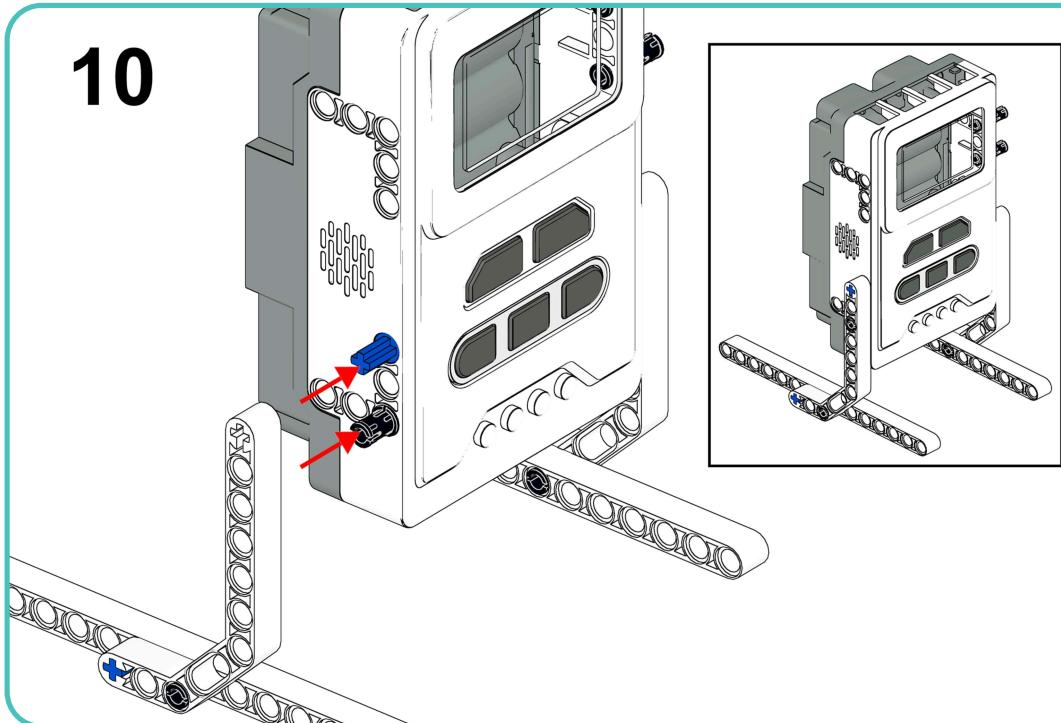
98

ROBÓTICA NA PRÁTICA

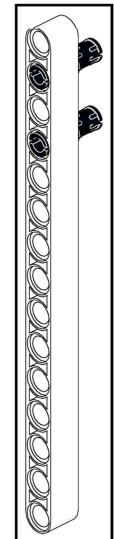
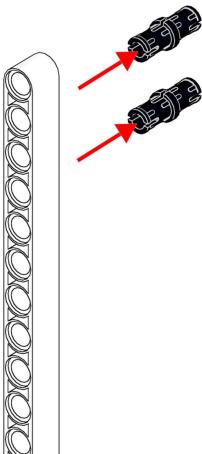
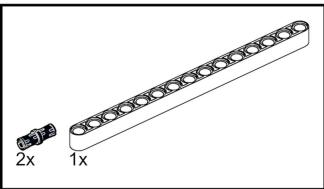
9



10

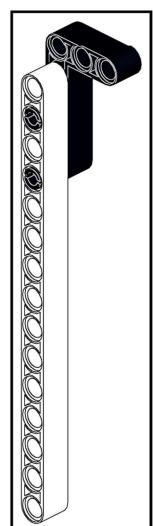
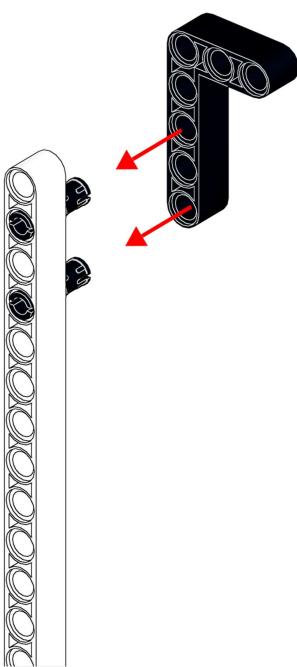
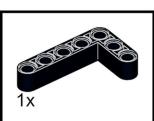


11

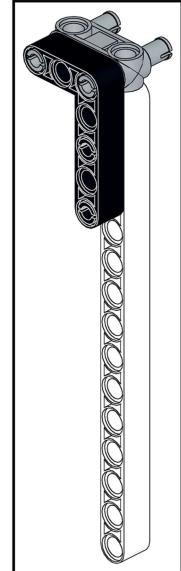
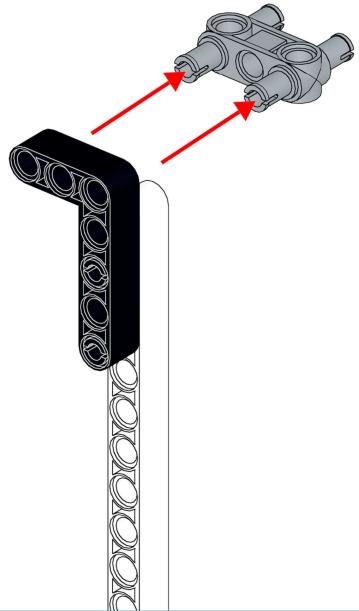
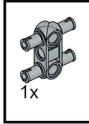


15 1 : 1

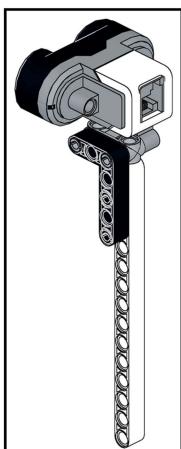
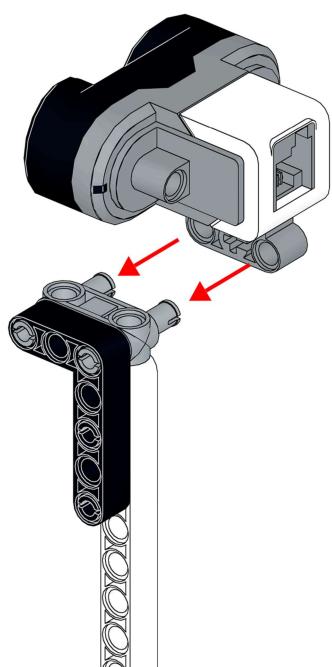
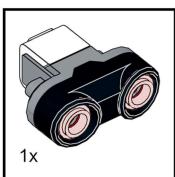
12



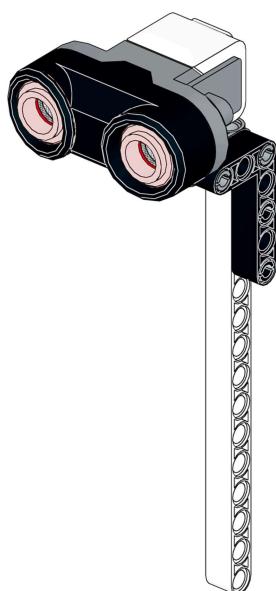
13



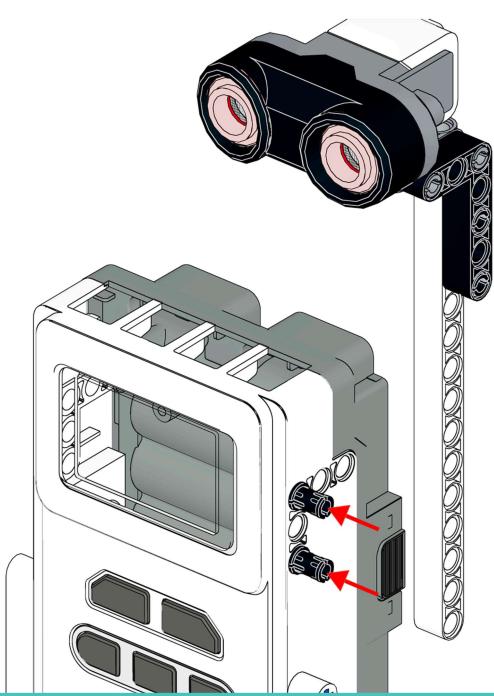
14



15



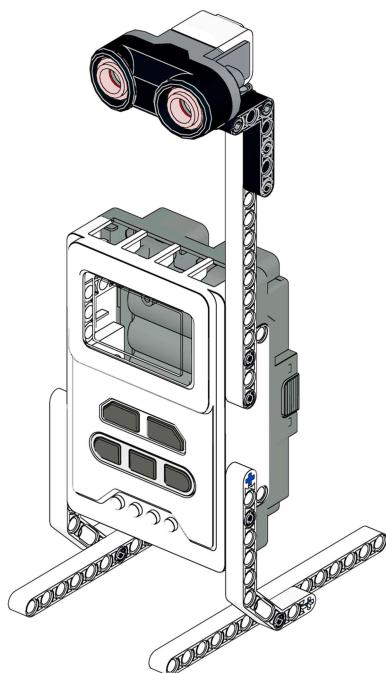
16



102

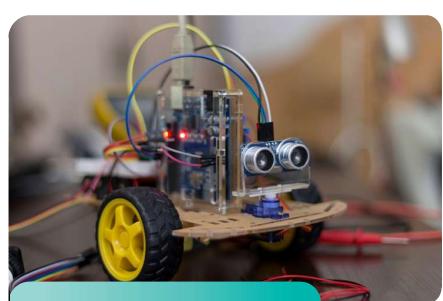
ROBÓTICA NA PRÁTICA

17



PROGRAMAÇÃO

A ecolocalização é uma habilidade surpreendente observada em diversos animais, como morcegos e golfinhos. Esses animais emitem sons, muitas vezes, em frequências ultrassônicas, que se propagam pelo ambiente e retornam após atingirem objetos. Ao captar os ecos desses sons refletidos, esses animais conseguem formar um “mapa” mental do ambiente ao seu redor, identificando obstáculos, presas e outros elementos. Vamos usar essa habilidade especial de alguns animais como inspiração e transformar nosso robô em um detector de obstáculos. Programe o espião para que, cada vez que o robô identificar algo a sua frente, ele emita um som.



© NATALIINOSOVA/Shutterstock