Fan-Tastic - NXT

Suggested Time

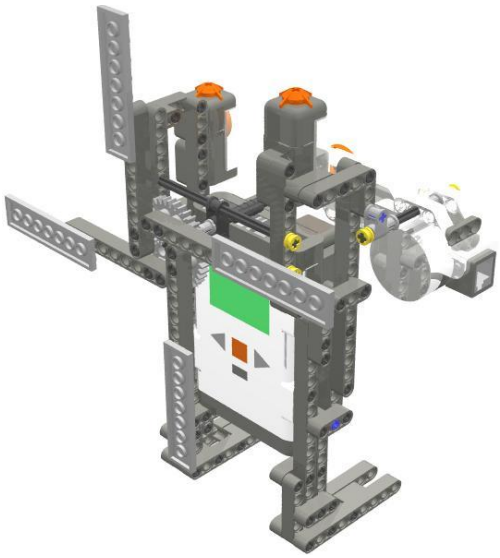
60 minutes

Age

11 - 18

Challenge

In this activity, design and construct and NXT fan with 2 touch sensors and program it to run at variable speeds and have a start/stop function.



Topics

Touch Sensors & Power Levels

Subjects

Math, Engineering & Technology

Programming Themes

Motor Forward, Task Split, Jumps / Lands, Wait for Touch, Power Levels

Related Math & Science Concepts

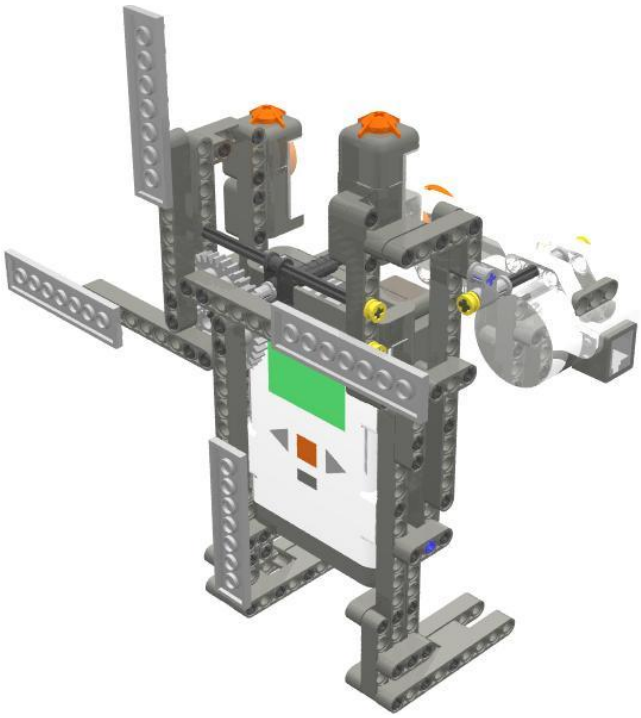
- Gears
- Acceleration
- Velocity

Materials

- NXT
- Assortment of LEGO Technic pieces

Building Instructions

1. Build a sturdy fan which is composed of two touch sensors.



Programming Instructions

1. Using LEGO NXT Software, use 2 touch sensors to control fan speed and stop / start functioning.