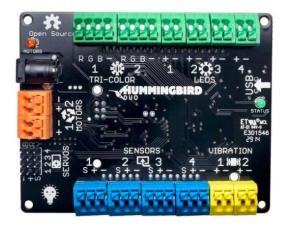
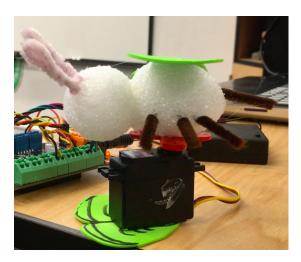
Workshop

Intro to Hummingbird Kits: The Bee Waggle Dance



Length: 2 - 3 Hours

Subjects: Computer Science, Science



Topics

- Computer Science: Block Programming and Physical Computing
- Science: 3–5-ETS1-1. Define a simple design problem that includes criteria for success and constraints.

Outline

- Introduction to Hummingbird Investigate the microcontroller and external attachments.
- Intro to Physical Computing Control external devices using block programming with Snap! Or Scratch.
- Engineering Challenge Complete and engineering challenge with LEDs.
- Design a Bee
 - Use everyday making materials to design a bee. Code basic movements with servos
- Bee Waggle Dance Use coding blocks to investigate loops and conditional statements.
- Extension with Sensors Use sensors to create an interactive robotic bee.
- Share out Share your designs and discoveries.
- 8. <u>Connect Make connections to other content areas and existing lesson plans.</u>

Contact

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