**littleBits STEAM Student Set project details**

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<td>Self-Driving Vehicle</td>
<td>p. 32-38</td>
<td>30 mins</td>
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Start by building the circuit cruiser, a vehicle that gets around on two DC motors. Add extra features to this lean, mean, mobile machine. Use it to deliver school supplies to your friends, help your teacher pass out papers, or wake up your sleeping classmate.

| Art Machine | p. 39-45 | 30 mins | 2 / 5 | Markers  
Drawing Surface  
Rubber Band / Masking Tape |

Start by creating a doodle wizard - a bot made with DC motors, and a pulse that dances, wiggles, and draws up a storm. Add your own artistic flair by changing up some of the Bits and materials to create unique masterpieces.

| Throwing Arm | p. 46-52 | 1 Hour | 2 / 5 | Philips Head  
Screwdriver  
Scissors  
Rubber Band  
Paper Cups  
Masking Tape |

Start by building a launcher that flings projectiles with a servo at the press of a button. Set up a tower of cups and try to knock them over. Then modify your launcher to make it even more accurate, powerful, or speedy. Challenge your friends to see who can knock over the most cups.

| Security Device | p. 53-58 | 1 Hour | 3 / 5 | Backpack |

Start by making the backpack alarm with the light sensor, pulse, and buzzer. This light-sensitive alarm will alert you if someone is snooping around your stuff. Customize your alarm for different places around the school.