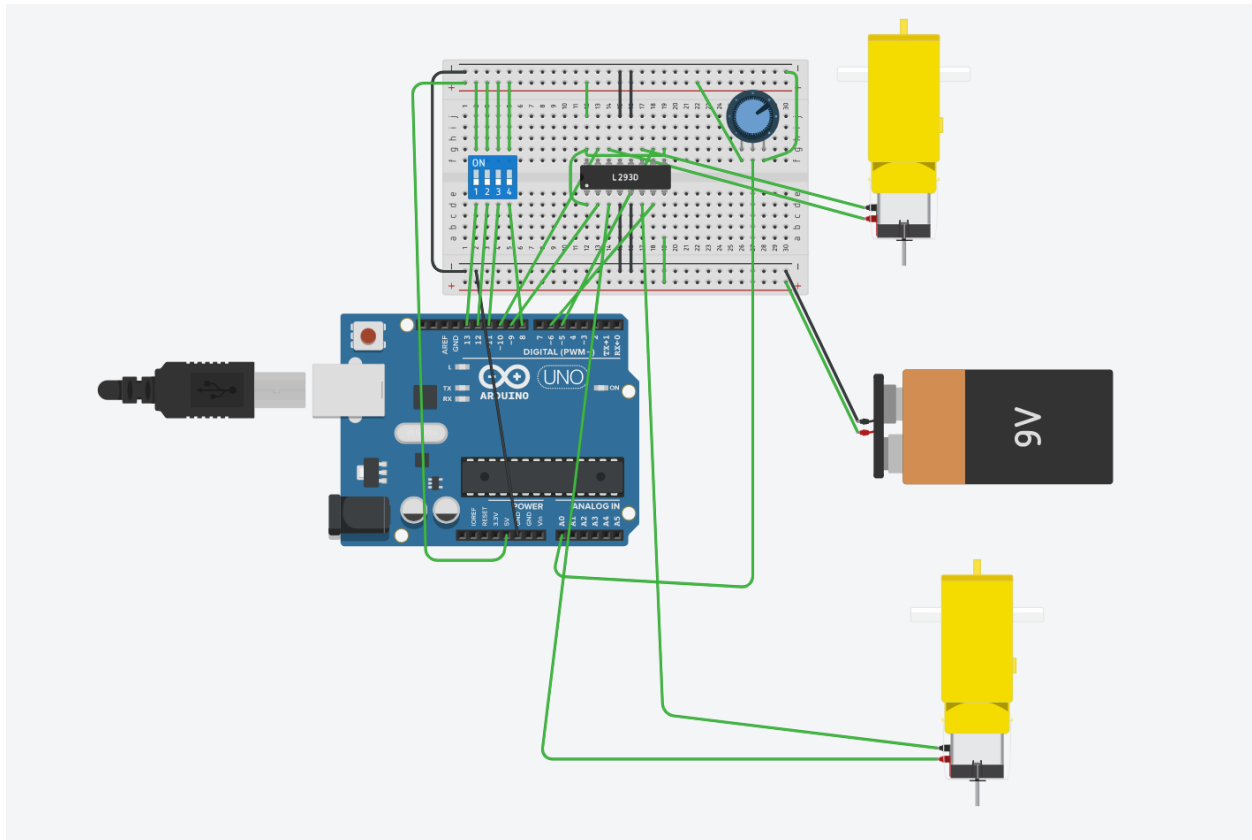


Safwan Hasan

<https://www.tinkercad.com/things/e9AiVux6cZK>

This project was done in the following order:

The circuit:



The breadboard with potentiometer and power supplies were done using the seminar provided. It was quite easy and just required a lot of attention as the wires could be mixed up easily. Eventually, the motors were connected along with the dip switch.

After the circuit was finished, I started working on the code. At first, I just simply used the potentiometer and made the motor run forwards (using the seminar). Then, the hardest part of the project was trying to figure out how to make the motor run backwards, and then I realized in the amplifier had two sets of outputs (for each motor) and after some testing I realized one is responsible for forward motion and the other is responsible for backward motion.

Eventually, I added the dipswitch to the code which was relatively easy as I have computer science knowledge that was similar.

