

## CECS346 Lab 7 – Stepper Motor

Partners are allowed!

Connect single stepper motor to TM4C (power, ground, 4 phases A,B,C,D as GPIO outputs). See picture for example.

### Option 1: Full Credit

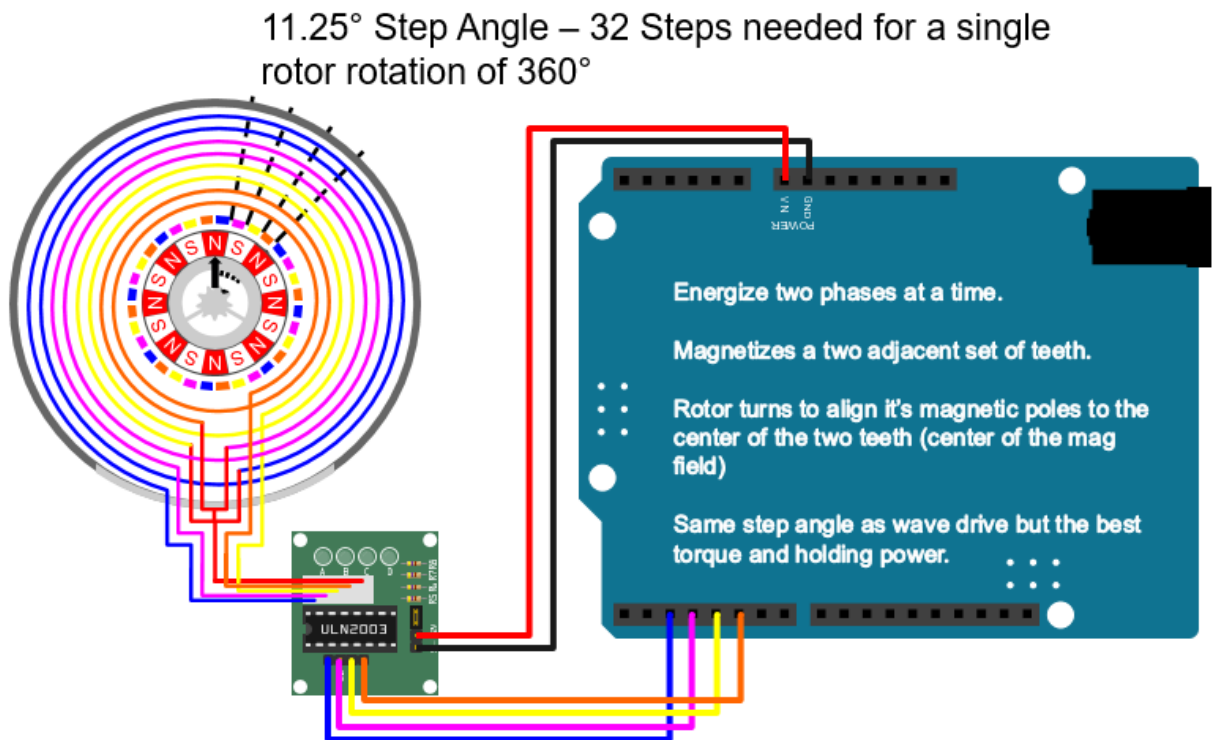
1. When PF0 is pressed (**falling** edge interrupt), rotate clockwise 90 degrees (Wave Drive or Full Stepping is allowed).
2. When PF4 is pressed (**falling** edge interrupt), rotate counterclockwise 180 degrees (Wave Drive or Full Stepping is allowed).

### Option 2: 50% Credit

1. After power on, have the motor rotate clockwise 90 degrees OR counterclockwise 180 degrees, then stop.

Submission

1. Submit code to Dropbox.



3.