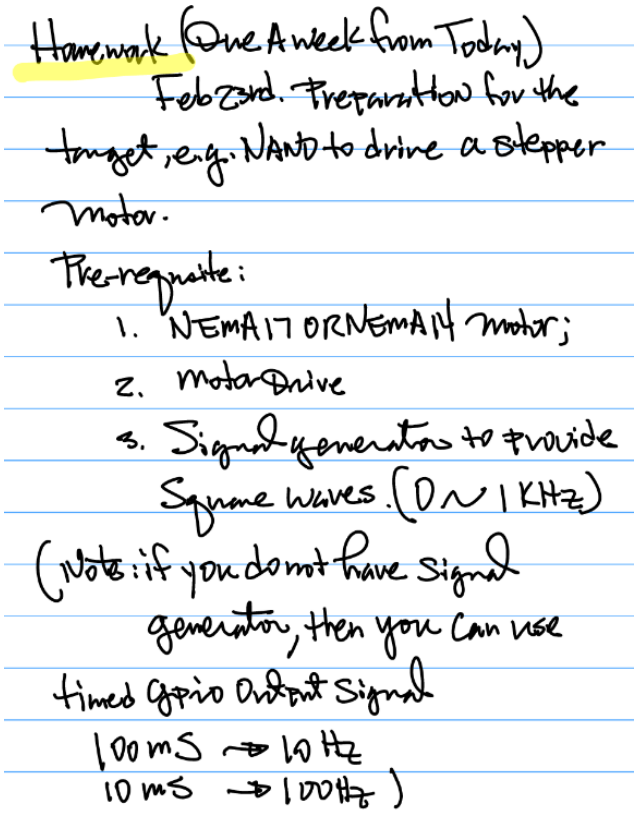
CMPE242
Homework Stepper Motor Drive Testing Part I
HL




1. Have both stepper motor drive and stepper motor (NEMA14 or NEMA17) ready;
2. Obtain the stepper motor data sheet and/or instruction sheet for the pin connections
(2.1) to the stepper motor, and
(2.2) from the microprocessor to the stepper motor drive;
3. Draw schematics of this connection;
4. Connect your signal generator output pin (if you prefer or you do not have access to a signal generator, you can use microprocessor GPIO output pin) to the motor the proper drive input pin per the data sheet/instruction sheet of your drive, connect the enable pins to GND if active low or to 5 VDC if active high of your motor drive per data sheet spec, and connect direction pin or configuration pin of your motor drive per the data sheet spec.
4. Take a photo of your set-up (as a work-in-progress checking).
5. Start the signal generator to drive the stepper motor motion, record 5 seconds video as an option.
6. Combine the above 1 to 4 into one PDF file, then zip it. Use the following file naming convention: firstName_lastName_SID(last-4-digits)_hw_motor_drive1.pdf.
Submit it to the class canvas.

(END)