CMPE 240 Cross Polling Demo Checklist

Student: _____

Reviewed by: _____

Date: _____

Verification Sequence:

1. Observe rebuild and download of project code. Verify no warnings or errors.

2. Verify correct cross connection (PA0 to PB7 and PA1 to PB6).

3. Press the reset button on the board and observe that the green LED lights with no observable delay.

4. Open a PuTTY or equivalent terminal on the virtual comm port.

5. Press the down button on the joystick.

6. Observe that the green LED turns off immediately and then turns back on after about 0.5 seconds.

7. Observe that the terminal displays the message exactly once.

8. Disconnect the jumper to PB7 and press the down button.

9. Observe that green LED turns off immediately and that the red LED lights after about 0.5 seconds.

10. Reconnect the jumper, press the down button, and observe that the red LED turns off immediately and the green LED lights after about 0.5 seconds.

11. Disconnect the jumper to PB6 and press the down button.

12. Observe that green LED turns off immediately and that the red LED lights after about 0.5 seconds.

13. Reconnect the jumper, press the down button, and observe that the red LED turns off immediately and the green LED lights after about 0.5 seconds.

Rubric:

- _____ 25 points Step 3 passes.

- _____ 20 points -- Currently displayed LED turns off immediately on down button press.

- _____ 20 points Next LED status is displayed about 0.5 seconds after button press. Delays over 1 second are penalized proportionally.

- _____ 10 points Step 7 passes (terminal message displayed once per button press).

- _____ 10 points Full sequence passes

- _____ 15 points Code quality (good naming, clean appearance, no warnings or errors)