

CPEG 222 – Project 3 Demo Grading

Arbitrary Waveform Generator

1. Waveform output: 40 pts

10 point deduction for each item not satisfied. Max deduction = 40 points

- Continuous through each period (i.e., no glitches)
- Low noise
- Amplitude approximately +/- 1.2 V
- No DC offset
- Relatively smooth (i.e., no major jaggies)

2. Operation: 20 pts

10 point deduction for each item not satisfied. Max deduction = 20 points

- Toggle switches selects waveform type
- Waveform period entered via keyboard in milliseconds.
- Range of waveform period should be approximately 10 – 100 milliseconds (100 – 10 Hz).
- Waveform period accuracy should be 1 millisecond or better.

3. Waveform selection: 30 pts

10 point deduction for each waveform not generated. Max deduction = 30 points

- Sinusoidal
- Exponential
- Triangle

4. Customer Satisfaction: 10 pts

Your customer (the TA) will award a maximum of 10 points that reflects his/her satisfaction with your project. A 10 point deduction for each item below will be assessed. Max deduction = 10 points

- Messy wiring
- Waveform selection switches not clearly labeled
- Quirky operation
- Unfamiliarity with any aspect of your project
- Late for your demo
- Poorly presented demo

Other

Your project notebook must be turned in at the time of your demonstration. No documentation will be accepted after the demo.

The total project grade is 25% design notebook and 75% demonstration.