Final Project Checklist

Portable Laser Function Generator
Brandon Vasquez and Ciara Kamahele

Waveform Generation Module: Ciara

- ❏ Produces sine, square and triangle wave
- ❏ Duty cycle works for both square and triangle waves
- ❏ Output channels have a constant phase difference that can be programmed
- ❏ Status segment leds display wave status as well frequency and amplitude
- ❏ Output dacs produce clean waveforms up to a reasonable frequency (dependant on output DAC hardware)

Window / Display Module: Brandon

- ❏ Waveforms from waveform generator can be scaled and displayed on a vga monitor
- ❏ Alphanumeric characters and a basic grid can be displayed on the vga monitor
- ❏ Basic geometric shapes can be drawn using the laser and galvanometers
- ❏ Waveform can be displayed using the laser and galvanometers without alphanumeric characters

BONUS: Both

- ❏ Alphanumeric characters and grid can be displayed using the laser and galvanometers - IF TIME PERMITS
- ❏ Input from the IMU unit can be obtained and interpreted - IF TIME PERMITS
- ❏ Compensation module produces some image compensation - IF TIME PERMITS