

Hackerling Circuit Test Checklist

Test the Arduino

- ☐ Computer detects Arduino and successfully uploads program

Load the program - MMA8452Q_Example

- ☐ Accelerometer readings display to Serial (9600bps)

Load the program - CH_buttonstest

- ☐ Up Button makes a sound
- ☐ Down Button makes a sound
- ☐ Left Button makes a sound
- ☐ Right Button makes a sound
- ☐ Speaker Works

Load the program - CH_ledandswitches

- ☐ Toggle Switch turns on/off Green LED
- ☐ Green LED works
- ☐ DIP Switch 2 turns on/off lights from Bargraph
- ☐ DIP Switch 3 turns on/off lights from Bargraph
- ☐ DIP Switch 4 turns on/off lights from Bargraph

Load program - CH_potandtherm

- ☐ Thermistor readings display to serial (9600bps), frequency of updates based on Potentiometer
- ☐ Potentiometer changes frequency of Bargraph updates
- ☐ All Bargraph lights work

Load program - Servo / Sweep

- ☐ Servo attached to S1 will swing back and forth

Load program - Hackerling_Shield / Overview

- ☐ Tones will sound when IR signal detected
- ☐ Down button will send IR signal (use other HC to detect)

Hackerling Circuit Test Checklist

Test the Arduino

- ☐ Computer detects Arduino and successfully uploads program

Load the program - MMA8452Q_Example

- ☐ Accelerometer readings display to Serial (9600bps)

Load the program - CH_buttonstest

- ☐ Up Button makes a sound
- ☐ Down Button makes a sound
- ☐ Left Button makes a sound
- ☐ Right Button makes a sound
- ☐ Speaker Works

Load the program - CH_ledandswitches

- ☐ Toggle Switch turns on/off Green LED
- ☐ Green LED works
- ☐ DIP Switch 2 turns on/off lights from Bargraph
- ☐ DIP Switch 3 turns on/off lights from Bargraph
- ☐ DIP Switch 4 turns on/off lights from Bargraph

Load program - CH_potandtherm

- ☐ Thermistor readings display to serial (9600bps), frequency of updates based on Potentiometer
- ☐ Potentiometer changes frequency of Bargraph updates
- ☐ All Bargraph lights work

Load program - Servo / Sweep

- ☐ Servo attached to S1 will swing back and forth

Load program - Hackerling_Shield / Overview

- ☐ Tones will sound when IR signal detected
- ☐ Down button will send IR signal (use other HC to detect)