PROJECT 1- TOASTER FOR THE BLIND- Emily Szabo

TFTB 1.1 The appliance shall be operational by the blind.

TFTB 1.2 The appliance shall be safe for the primary users.

TFTB 1.3 The appliance shall provide accessible controls to the users.

TFTB 1.4 The appliance shall abide by all applicable standards.

PROJECT 2- COFFEE MAKER FOR PERSON WITH HAND TREMORS- Alec Walsh

CMT 1.1 The device shall be usable by people with hand tremors.

CMT 1.2 The device shall be capable of brewing 2 to 6 cups of coffee at once.

CMT 1.3 The device shall use standard coffee filters with coffee grounds.

CMT 1.4 The device shall fit on a standard kitchen counter-top.

CMT 1.5 The design should consider the entire coffee-making process.

PROJECT 3- BLOOD PRESSURE MONITOR FOR PERSON WITH ONE ARM/HAND- Stephanie Zhang

BPM 1.1 The biomedical device shall comply with standard biomedical device safety protocols for home blood pressure monitors.

BPM 1.2 The biomedical device shall incorporate portability for ease of use.

BPM 1.3 The biomedical device shall be used by a user who has one non-functional arm.

BPM 1.4 The biomedical device shall be electronically operated.

BPM 1.5 The biomedical device shall accommodate individuals ages 12 and up.

PROJECT 4- ENERGY EFFICIENT TOASTER- Megan Drake

EEBT 1.1 The toaster shall use less than 200 Wh per use.

EEBT 1.2 The toaster shall house two regular cut bread slices.

EEBT 1.3 The toaster shall not weigh more than 2.5 pounds.

EEBT 1.4 The toaster shall not be more than 50% slower than usual brands.

EEBT 1.5 The toaster shall abide by applicable safety standards.

PROJECT 5- ENERGY EFFICIENT REFRIGERATOR- Manjushree Aithal

EER 1.1 The refrigerator is more energy-efficient than a moderately-sized modern model (~18 ft3 ).

EER 1.2 The refrigerator shall have a freezer.

EER 1.3 The refrigerator shall have fresh food compartment.

EER 1.4 The refrigerator shall monitor temperature in each compartment accurately.

EER 1.5 The refrigerator shall monitor unit’s annual wattage usage.

EER 1.6 The refrigerator shall indicate abnormality.

PROJECT 6- HARVESTING KITCHEN WASTE ENERGY- Mike Elmore

HKWE 1.1 The kitchen waste energy harvester shall be able to recharge a small device.

HKWE 1.2 The kitchen waste energy harvester shall be easy to use.

HKWE 1.3 The kitchen waste energy harvester shall be able to fit in a kitchen cabinet.

HKWE 1.4 The kitchen waste energy harvester shall be maintainable.

HKWE 1.5 The kitchen waste energy harvester shall be safe.