ThermoBank Prototype 4.0

Materials used:

Nylon- Light polymer plastic that is strong, durable, stretchy and flexible as well as breathable. The color black is used to absorb heat from sunlight while hiking.

Velco – Heavy duty Velco with stitched edges to maintain secure fit.

Thermo-electric generator (TEG 2) – Power scavenging design used to harvest electricity from low delta temperatures.

THE-2D-U Bi-directional ultra-low voltage converter- Amplifies thermos generated electricity. This device can take 45millivolts and convert it to between 5V-10V.

Power Supply Module w/ USB- Accepts DC voltage of .9 V and outputs a stable 5V.

ThermoBank pictures from development

1st prototype

A picture containing floor, indoor, table

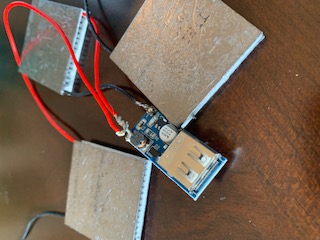
Description automatically generatedA picture containing outdoor, person, chair

Description automatically generatedA picture containing floor, indoor, ground, sitting

Description automatically generated

2nd all new redesign

A picture containing indoor, floor, wall, table

Description automatically generatedA picture containing indoor, wall, floor, table

Description automatically generatedA picture containing indoor, sitting

Description automatically generatedA wooden table

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