

Objectives

a:

For our BRMHS Service Learning Project we set out to design and build a **biometric device** which uses green energy and functions as

- Pedometer.
- Calorie Counter.
- Heart Rate Monitor.
- Temperature Monitor.

board).









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TigerPaw Baton Rouge Magnet High School Service Learning Project LSU College of Engineering: Division of Electrical and Computer Engineering Malcolm Stagg, Taylor Holmes, Walter Rody, Jason Partin





and

We built four TigerPAW devices, each of which: Results • Measures heart rate while device is held still. • Measures temperature within ±1°F. • Measures steps taken within ±1 step per 10 steps. Calculates work and power. • Uses solar cells to generate a maximum of 89.6mW of power

for recharging.









CADing and Printing the Enclosure

Mating surfaces: Main body (above) Hull (below)



until the final version.