

Project Description:

The AmberWatch is a digital wristwatch that includes an alarm circuit. When activated, it immediately calls attention to the child at risk with a piercing audible alert and bright flashing LEDs. The parent must reset the alarm using a customizable button press sequence.

Key Features / Project Highlights:

- Ultra-Low Power and Ultra-Miniature alarm circuit Design
- Emits distinctive tone at over 110 decibels, generated by custom circuit and software algorithm, all running from two button-cell batteries!
- Benchmarked many batteries and specified only those capable of performing well in this unusual, high-drain-rate application
- System Architecture, Hardware and Mechanical Design, Software Development, Transfer to and Monitoring of Volume Manufacturing in China
- Optimized mechanical design, electronics circuit and tone generation software for desired acoustic characteristics



About LocoLabs:

LocoLabs is a Silicon Valley, CA provider of custom and turnkey development platforms and modules for embedded designers. It is our mission to accelerate your product development, drawing on more than a decade of experience tackling tough embedded design problems for leading suppliers of consumer, computing and commercial systems.

In our engineering and design work, LocoLabs customers call us the "Rev-Zero" company. With success stories in consumer electronics, commercial robotics, HD video and instantly deployable wireless networking, our experience reinforces the value of fast prototyping and hardware/software co-design. LocoLabs' cross-trained Embedded, Multimedia, Wireless and Linux experts in our Silicon Valley design center are available to support your rapid product development.

