*Wearable UV Light Exposure Monitor*

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Project Overview:

Most people are aware that exposure to ultraviolet light can be dangerous and can increase the risk of developing certain types of cancer. That said, most people also have no idea how much UV light they are exposed to, nor what activities lead to increased exposure. This purpose of this project is to create a wearable UV monitor that will log a person’s exposure to UV light throughout the day. This device will not only measure current levels of UV light, but will maintain a running total of exposure and a time correlated record of exposure levels throughout the day.

Desired Attributes:

Wearable

Durable

Cheap

Accurate

Required Components:

UV sensor

Microprocessor (STM32?)

Calibration method, Automatic (Hardware?)

Memory

Clock (real world)

Data output (usb?)