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Before collecting a blood specimen, every patient must have their armband scanned. Unfortunately, the scanner model that the hospital uses did not seem to work consistently, leading other hospitals to ditch that model and purchase the newer, more expensive one. Determined to find the root of the issue, Ryan experimented and determined that the existing scanners worked great with better lighting. After exploring a variety of off-the-shelf lighting options, many of which were too expensive or too poor quality, he came to the generate lab to design and build his own. Ryan created a circuit from a 9V battery, a button, and a wide-angle LED. He then designed and 3D printed an ergonomic case that allows single-hand control and easy battery replacement, thus rendering the existing scanners perfectly effective and eliminating the need to purchase the newer model.

