

Gryphon Patlin

*Drop Notice*

Phone users need a faster way to know when they drop their devices because locating a phone is not reliable and costs time and energy. This investigation involved designing an app to detect falls and alert its user. It had two essential design criteria, (1) to give an alert when it was dropped from fifty to one hundred fifty centimeters, and (2) to not give an alert in a normal environment such as being carried while the user is walking or driving. The final prototype passed both design criteria. It gave an alert when dropped 93.33 percent of the time, and it never was set off in a normal environment. Based on the analysis, my next prototype would detect whether or not it was being held. This would allow for increased sensitivity which would increase its success rate when it was dropped.