



Throw your smartphone

Modern smartphones are equipped with more and more integrated sensors. The most commonly used sensor information is location, which enables location aware applications. However, there is also less obviously useful data such as information about the orientation and acceleration of the phone. This information can be used to deduce walking patterns and/or enable sports software to give you hints on how to improve your exercises.

In this thesis we want to use sensor data for something different, i.e. for fun. For example as seen on Facebook, people love to take pictures of themselves. The common way to do this is (obviously) to either hold the phone in your hand as far as possible away from you or to use a mirror.



So what does this have to do with sensors? How about throwing your phone up in the air and making it shoot a picture when it is facing down at the highest spot? Pretty sure your friends did not come up with such a self-photo before.

Furthermore, this idea can be generalized into a version where you do not shoot the picture while facing down, but choose an arbitrary angle from which to take the picture. Finally, you can easily take pictures of the pretty girl next door sun bathing without her noticing!

Requirements: Good programming skills (preferably in Java) are required. Some creativity and experience in Android programming are advantageous. The student(s) should be able to work independently on this topic.

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