



## Real Life Guitar Hero

### Motivation and Informal Description

Millions of people around the world are trying to learn to play an instrument. One vital part, which all instruments share, is hitting the correct note just at the right time. But this is hard and knowing whether or not one did well is hard to judge for a beginner. Having a teacher who gives you explicit feedback is great, but is not feasible in many cases. Thus, you need to rely on your ear. “If it sounds good, it is good” is one of the most commonly used tactics. But does this really work if you are a beginner? Maybe it sounds good, but it could sound so much better if done right.

Using every day tools, this can be changed. Most of us carry a microphone around that is attached to small computer. Why not let your phone listen to your sound and judge you? It can be less embarrassing and more accurate than any other method out there. We want you to build upon insights from previous work and use the knowledge we acquired to develop an app for that.



### Requirements

Good programming skills. The student(s) should be able to work independently on this topic!

**Interested? Please contact us for more details!**

### Contact

- Pascal Bissig: [pascal.bissig@tik.ee.ethz.ch](mailto:pascal.bissig@tik.ee.ethz.ch), ETZ G61.3
- Philipp Brandes: [philipp.brandes@tik.ee.ethz.ch](mailto:philipp.brandes@tik.ee.ethz.ch), ETZ G64.2