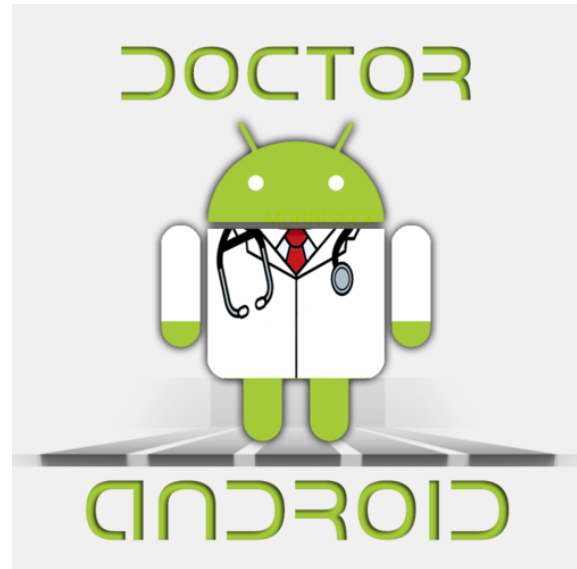




## Android Doctor

Phones have been getting more and more powerful in recent years, and Google has done a nice job of improving Android's overall performance. However, a mobile phone is still a resource-constrained embedded system, and performance is still an issue.

Android is a complicated and highly fragmented platform. There are many different versions from many different manufacturers running on a variety of different hardware components. Therefore, the performance among Android devices is also highly fragmented. We want to gain a better understanding of the performance of Android devices overall. We have already made efforts to measure the real-world performance of phones with our DiscoMark benchmarking App. For this thesis however, we want to develop an external performance and system-health monitoring system for Android. For example, we would like to know why performance is good/bad at any given time, which apps are causing the system to slow down, detect suspicious apps, etc.



If this sounds interesting to you, please do not hesitate to contact us. We would like to hear your ideas about the project.

**Requirements:** Creativity and programming skills are an advantage. The student(s) should be able to work independently. There will be weekly meetings to discuss your progress and open questions.

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

### Contacts

- Pascal Bissig: [bissigp@tik.ee.ethz.ch](mailto:bissigp@tik.ee.ethz.ch), ETZ G95
- Gino Brunner: [brunnegi@student.ethz.ch](mailto:brunnegi@student.ethz.ch), ETZ G63