



BA/MA/SA/Group/Lab:

Improving Personal Safety

With the help of modern medicine, many injuries and diseases can be treated with promising chances of recovery. In addition to this, mobile phones have greatly improved the odds of alarming the necessary people to get help in an emergency situation. However, there is still a lot of room for improvement. For example, imagine a person that is unable to trigger an alarm because he or she passed out after an injury very quickly, or somebody who is unable to reach the phone after falling down a flight of stairs. Although the suffered injuries might very well be curable in both cases, the situation can be extremely dangerous as discovering the accidents is only a matter of luck.

The ability to alert the right contact for a given emergency situation plays a crucial part in improving personal safety. In some cases, such an alarm system might even autonomously detect an emergency situation and trigger an alarm without user interaction. The goal of this thesis is to improve some of many open questions in reliably releasing personal alarms. Depending on your interests the project may include building a hardware prototype.

Requirements: Good programming skills and creativity are advantageous. Experience in prototyping hardware are required if you are interested in building a solution that requires custom hardware.

Interested? Please contact us for more details!

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