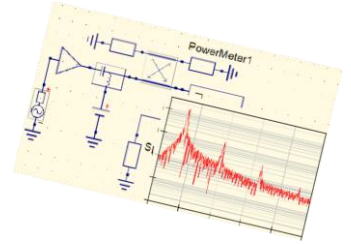


Bachelors/Master thesis









ESD (Electrostatic Discharge) Detecting Phone Case: A microcontroller-sensor project

Motivation

Together with a large cell phone maker, we are interested in the severity and occurrence rate of electrostatic discharges a cell phone is exposed to. To capture the data, we design a cell phone case that includes sensors, microcontroller etc. and connects to the cell phone. We already have some level or prototype, thus starting is not that difficult.

Key Facts:

-  Craft a phone case that senses ESD stress on mobile devices.
-  Dive into electronic design, crafting a full PCB complete with sensor interfaces and a microcontroller. This is based on a prototype
-  Show off your coding power with firmware development, again based on existing code
-  Collaborate closely with one of the world-leading mobile phone company through regular online meetings.
-  Conceptual prototype blocks are already available, offering solid reference points.
-  Tap into a wealth of experience and support from seasoned experts at the institute.

Your Profile

You are eager to learn. Prior knowledge and experience in microcontrollers is needed.

Organizational matters

- Start: as soon as possible
- Workplace: at the institute
- You can get hired for 20h/week

Contact/Supervision

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