

400€

Magnetic Tracking

Projekttitlel



Firma

metra Tec GmbH

Hochschule

**Otto von Guericke Universität
Magdeburg**

Ort, Datum, Unterschrift

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Kurzbeschreibung des Projektes

The motivation of project is to detect the permanent magnet position and orientation inside the Human body. The project is in the research phase for developing a tracking system based on magnetic tracking. This includes permanent magnets as well as low frequency magnetic coils. These magnet can be mounted on an instrument (e.g. a camera or a probe) or can be injected into the patient to serve as a "landmark" for surgical navigation. I am probably going to use micro-controller to collect information from sensor array and build demo code in Sci-lab. I will design a board prototype in order to show that such system could work.