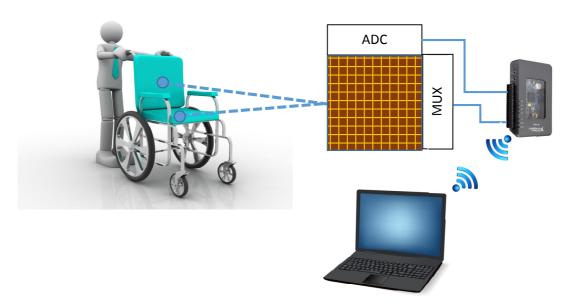
## Construction of a pressure measuring system for a seat cushion

To detect the position of a person in a wheelchair, two pressure-measuring mats from InnovationLab GmbH should be connected to a myRio Embedded System.

As an interface between the pressure-measuring mats and myRio, an electronic circuit is to be developed and constructed that reads out a matrix of 12x20 FSR sensors. The data should be visualized via Wi-Fi on a PC.



## Your tasks:

- Development and construction of an interface between pressure-measuring mat and myRio (selection of suitable components, PCB design and layout, connections, housing, power supply, etc.)
- Programming of myRio, as well as creation of the visualization software in NI LabView
- Documentation

## Your profile:

- Fundamental interest and understanding of electronics and hardware related software
- Ideally, experience with prototype platforms, e.g. Arduino
- Independent and structured way of working and enjoyment of experimenting

## If you are interested, please contact:

Prof. Picard: antoni.picard@hs-kl.de

- Michael Göddel: michael.goeddel@hs-kl.de

- Jörg Blinn: joerg.blinn@hs-kl.de











