



**Project funded by the EU Lifelong Learning Programme  
Project Reference No. 527877-LLP-1-2012-1-UK-ERASMUS-ENW**

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## SALEIE Student Project in Assistive Technology Project 8

<b>Project Supervisor:</b>	Prof. Böhm	<b>SALEIE partner</b>	UOAS Mainz
<b>Project Title:</b> Creating a guidance system as Smartphone APP using indoor navigation in real time			
<b>Project duration:</b>	1 semester	<b>Project level</b>	Final year (year 3) undergraduate project
<b>Course Suitability:</b>	Bachelor of Geoinformatics and Surveying		
<b>Project Description:</b>			
<p>In this project, a system will be designed and developed which aims at real time navigation support for students with disabilities. The target platforms are tablet PC and/or Smartphone. The focus of the application is to support navigation within and in between campus buildings – in most cases complex architectures. The application takes special demands and restriction regarding accessibility into consideration. Within the course of the this project, state of the art analysis will be performed and existing software will selected, appropriate sensor frameworks will be selected and an application prototype will be developed. The project utilized modern state of the art sensor technology and its main tasks are software development. The expected result is a prototype of an iOS or Android app and a sensor infrastructure.</p> <p>This project links into the active <i>EU Lifelong Learning Programme "SALEIE"</i> (Strategic <b>AL</b>ignment of <b>E</b>lectrical and <b>I</b>nformation <b>E</b>ngineering in European Higher Education Institutions) and the work will be aligned to the area of assistive technologies to support students with disabilities.</p>			

The project descriptions are provided and also the contact details of the project proposer for more information or to discuss potential collaboration. These project descriptions are provided as ideas for other institutions to develop projects in assistive technology. If you want to refer to these project ideas, we would ask that you acknowledge the SALEIE project as follows:

"This project idea was developed as one of the project proposals provided under the EU Lifelong Learning Programme "SALEIE" (Strategic **AL**ignment of **E**lectrical and **I**nformation **E**ngineering in European Higher Education Institutions). Project Reference No. 527877-LLP-1-2012-1-UK-ERASMUS-ENW Project funded by the EU Lifelong Learning Programme"

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<http://www.saleie.york.ac.uk>

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