SAFI-MASTER THESIS

Background

Soft Solutions Partner AB is a modern IT company with about 10 full-time employees and several part-time employees in Sweden. The company has a subsidiary with 15 resource programmers in Pakistan. Soft Solutions business strategy is to develop products which will have an impact in people lives and make it easier. In November 2014 the company launched its product SAFI (language app for Inclusion) which became a success.

Soft Solutions Partner AB’s CEO is Gisele Mwepu. Gisele is a serial IT entrepreneur with a passion to change the world. She is passionate about creating solutions that help people and her latest innovation is the SAFI.

SAFI was originally developed to facilitate communication between schools / preschools and parents, regardless of language. SAFI is available both as app and Web, and allows to easily send and receive messages. Teachers send and receive messages in Swedish and parents responds and sends messages in the language of their choice. All messages in SAFI’s are standard messages and SAFI also works for illiterate people.

All messages in the SAFI is the default messages that are translated by certified translator and then recorded by professional interpreters. Safi is a reading function that allows one to listen to all messages. It allows SAFI also works for the illiterate.

SAFI also works for illiterate people. Those who cannot read, can just choose to listen to the message. They can even respond to the message or send messages to the school/teacher.

SAFI is already used in almost 100 schools and kindergartens around the country. Currently, 19 languages for school version and 13 languages for preschool version are available in Safi. New languages are ordered continuously by customers. These languages will be available for free to other customers who use the same version of SAFI. This makes the number of languages to grow all the time. SAFI
offers up to 82 languages.

The company is right now working to develop new versions of SAFI in collaboration with other companies or organizations.

In May 2015 SAFI won Post and Telecom Agency (PTS) Innovation Competition and received 1.2 Million SEK to be adapted for people with disabilities. The project extends to the end of 2016, and the result is a version of SAFI can be used in special schools, accommodation and by the parents of children with disabilities.

**Thesis tasks:**
In this thesis you will be based on user needs investigate if and how existing technologies can be applied to make these users (short sighted people, colour blind, blind, people with epilepsy and Parkinson) more effective. Thesis work includes a technology study together with prototype development. The prototype development is either done using low fidelity prototypes or more working high fidelity prototypes. Interaction design and graphic design is important competences for succeeding in this thesis work.

**Thesis Goal and Phases:**
- Collect domain knowledge either based on literature studies or user studies.
- Technology study of existing interaction or visualization techniques.
- Based on user studies and existing interaction technologies, develop a visualization concept that improves understanding and promotes collaboration among crane operators.
- Implement a prototype to demonstrate how the concept would work in practice.
- Evaluate the prototype and conclude the user experience of the concept.

**Requirements:**
We are looking for 2 ambitious master thesis students with any of the following competence:
- M.Sc in Computer Science and interest in Interaction Design and Human-Computer Interaction.
- Programming experience in front end development language HTML5, CSS3, Javascript.
- M.Sc in Interaction design.
- Industrial graphic designer.
- Experience in 3D application development.
- Communication and presentation skills in English are essential.
- Independent, outgoing, ambitious, and goal-oriented are qualities we are looking for.
- Required Scope: 30 ECTS (D-Level)

**Soft Solutions Partner AB**
Hamngränd 6
721 30 Västerås
[www.softsolutions-partner.se](http://www.softsolutions-partner.se)
Duration: 5 months (20 weeks)

**Additional information:**
Contact Persons:
Hassan Aziz Khan, CTO
Email: hassan@softsolutions-partner.se
Phone: +46-70-7838650

Adnan Shafqat, Software team leader
Email: adnan@softsolutions-partner.se
Phone: +46-73-8102877

Location:
Västerås, Vastmanland, County Sweden

Job function:
Research and Development