



AimValley is a world-class engineering and innovation center that designs and builds networking solutions. We are based in Hilversum, with colleagues in Canada, India and France. We started in 2003 as a spin-off from Lucent Technologies (a successor from the American company AT&T), which is why we have a strong background in telecommunication solutions and have built-up a vast expertise in real-time processor technology. Our telecom experience creates a perfect crossover to the HealthTech sector, where we are establishing our footprint, through developing innovative connectivity solutions for medical device manufacturers. Most of our design & development is done in-house.

Product development entails the preparation of requirements documents, specifications of system architecture, electronic development (board design, system certification, mechanical design), FPGA/ASIC & software development, system verification, and product/factory introduction. AimValley uses FPGAs to process high-speed transmission functions. Real-time requirements are key in our software development.

Our business is about people and our teams are dynamic, skilled and passionate about technology. Recruiting and training the right talent is an essential part of the AimValley DNA. We have over 95 employees of which 75% work as a design expert in the R&D organization. All R&D employees have a college or university-level education.



Project Introduction - Service-oriented Device Connectivity

A new standard named SDC (Service oriented Device Connectivity) has been developed for better interoperability between medical devices in healthcare. To date, no standard outside of SDC has been developed for data exchange between medical devices, outside of manufacturers themselves. AimValley's mission is to provide a service for medical devices using SDC.

Project Description

The knowledge within AimValley is limited as to how the network infrastructure inside hospitals is set up. To provide AimValley with more information for their continuation of the project, several interviews have to be conducted with experts in the field of networks in hospitals alongside desk research. A few subjects that have to be considered are: security, data exchange, implementation, network specifications, etc. This information has to be documented to provide a clear image of the network infrastructure in hospitals.



Complexity

The complexity of this assignment lies within the information gathering of the network infrastructures currently present in hospitals. Student needs to document the information gathering process and outcome in a clear manner.

Keywords for this project

- > SDC
- > Device interoperability
- > IEEE standardization

Affinity

- > HealthTech sector
- > Research environment
- > Documentation

Skills

- > Communicative
- > Independent
- > Competent in English

Are you a student with a can-do attitude and a passion for technology?
AimValley is your company!

Why not join us today: students@aimvalley.com