



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 - Requirements Database

For Requirements Engineering AimValley uses Open Source text editors, complemented with in-house developed scripts to enforce the syntactic rules and to create trace matrices between Product/Release and Requirements.

The current implementation of these scripts is based on CPAN Perl-libraries. The performance of the current tooling is too poor for additional (desired) features.

Project Description

The goal of the project is to replace the current functionality with a better-performing one; extending the functionality by storing the Requirements in a database and generating new Documents from that database.

The new implementation should use the native APIs of LibreOffice to interface with Text Documents and spreadsheets.

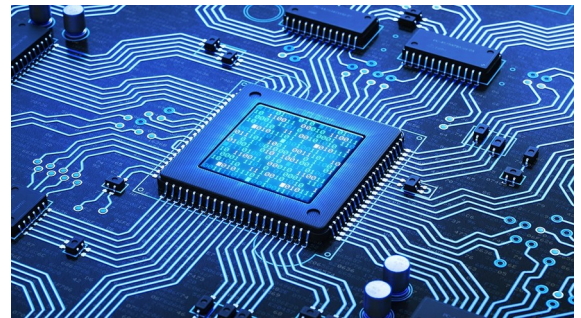
Complexity

The complexity is in defining a suitable (Relational) Database, in analyzing an efficient way of working to integrate the implementation with LibreOffice and the AimValley Process.

The student must scope the assignment to come to a project that fits his/her skills and the allocated time.

The student will encounter languages and tools, C/C++, Perl, OpenDocument format and SQL.

A fully traceable Architecture, Design and implementation (in English) are expected.



Keywords for this project

- > Requirements database
- > OpenDocument
- > Document Generation

Affinity

- > C/C++, scripting (Perl)
- > RPC, XML, DOM
- > SQL

Skills

- > Communicative
- > Independent worker
- > 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