



Client: Datacolor, USA

Topic: **full life cycle software development and full life cycle testing**

Situation

Our client is:

- Global leader in colour management solutions and colour communication technology;
- Providing innovative solutions for over 40 years for the world's leading brands to consistently achieve the right colour;
- In possession of an award-winning technology that electronically controls and communicates color between retailers, manufacturers and suppliers from design through production to marketing.

Challenge

The challenge facing us was in:

- Taking responsibility for full life cycle software development of Datacolor's flagship products, no matter what stage we entered the project;
- Elaborating high level documentation plans throughout full life cycle testing activity;
- Ensuring all times seamless communication even if situated in different time zones.

Actions

Actions we took to address these challenges were:

1. FULL LIFE CYCLE SOFTWARE DEVELOPMENT

- Smart Colour QC Analysis, visualisation and communication;
- Image capture in multiple reference lights and computation of the notable colorimetric properties of the sample;
- Ensure appropriate environment to organise and modify easily these measurements and generate reports on them;
- Implementing cloud-based image exchange for remote visualisation;
- Enabling supplier samples acquisition without the need of using postal service;
- Embedded development on portable spectrophotometer;
- Support for different displays for touchscreen;
- Paint Matching for every type of Sample;
- Unique predictive maintenance monitoring service for spectrophotometers.

Used Technologies:

C#, WPF, C++, .Net Micro Framework, VB, COM, MFC, MS SQL Server, Sybase, ADO.NET, Versant db4o, Entity Framework, Amazon Web Services, Wix, InstallShield, MS Access

Used Development Tools:

VS2012 TFS , MS Visual Source Safe, MSProject

Results

Our actions resulted in:

- Product development at a price and quality according to the expectations of the company leader in his industry;
- On-hand opportunities for software team expansion and growth for the client;
- Permanent upgrades and product releases on the market.

Actions

Actions we took to address these challenges were:

2. FULL LIFE CYCLE SOFTWARE TESTING

- Elaborating high level documentation (test plan, use case, estimation)
- Creating test cases, test data
- Performing functional and non-functional, platform, blackbox, exploratory, regression, integration and usability testing;
- Creating Reports

Used Testing Tools:

Mercury Quality Center, Microsoft Test Manager

Results

Our actions resulted in:

- Elaborated the quality control model of tested software products;
- Ensured the required quality level of the software;
- Saved time and money by eliminating critical issues during development instead of patching of the released product

Appreciation

Our strategic partner about us:

“We are very pleased with the performance of your people. They produce very good quality code, are very responsive, and committed. We appreciate this very much.”

Brian Levey, Vice President, Datacolor

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