**StackAssist - Faes Packaging Concepts**

* Designed and developed a collection of java based services that runs on UltraESB for performing all the back-end functionality for FPC's StackAssist stacking solutions web portal.
* The services run on the company's ESB system and provide a RESTful interface for communication from the portal.
* The system accepts product, packaging and configuration information from the Portal along with an order (a total of 5 files in Excel and XML formats) for performing its operations.
* Data from all input order files are aggregated into a single XML input which is used to perform load optimization for the given order.
* Implemented persistent JMS based waiting queues and services to consume their message to hold orders in them between processing stages with a maximum time out interval defined for each order
* Designed the Jasper Reports templates using iReports for generating PDF output from XML which is sent back to the portal.
* Designed a centralized mechanism to track progress of each order and notify the portal of errors or anomalies during all stages of processing.

**SKB Europe Download Center**

* Created a WordPress based web portal for the SKB Europe marketing team to distribute product marketing data to re-sellers in a quick and cost efficient manner.
* Designed a WordPress plugin to handle user privilege management, provide a simple and intuitive front-end administration panel for the marketing employees to manage files on the portal and also to track user activity, and file downloads on the portal.

**Vendor Rating Portal (SCM Web Application) - Faes Group BV**

* Developed a WordPress plugin to access stored procedures via a custom designed secure ESB proxy to retrieve data from the ERP system and populate the vendor rating portal database. It also includes a custom administration panel that allows the system administrator to manually synchronize the vendor rating database with Faes Group BV ERP systems and a WP Cron job that automatically synchronizes the vendor rating data and sends email notification on a daily basis.
* Implemented supplier performance analysis mechanisms that aggregate data from multiple locations in order to generate vendor rating reports for Faes Group BV suppliers.
* Designed an interactive dashboard that utilized jQuery and Google visualization libraries to graphically display supplier statistics and allow intuitive interactions for SCM functions. Also created a supplier rating report template for the SCM to generate periodic ratings to evaluate supplier efficiency.
* Presented a practical demonstration of the web application to Faes Group BV Supply Chain Management representatives which garnered immense applause.

**3D Contour and Depth Estimation of an Object Using Webcam Images**

* Created a proof of concept for 3D Contour and Depth Estimation of an Object Using Webcam Images. The project was proposed to extract data from images taken from multiple views of an object to generate a three dimensional model of the same object.

## B2B solution for SKB Europe – Amazon© automated EDI Communication

* Performed upgrades and maintenance for the EDI Transaction Connection between SBK Europe and Amazon© that handles automated order processing and invoicing for SKB Europe transactions with Amazon©.
* Drastically reduced bugs in the EDI Connection and revised various aspects to support the demands of increasing inflow of orders to SKB Europe from Amazon©.
* Created validation methods to ensure data consistency in orders from Amazon© sent via EDI (ANSI X12 Format).

## www.casecreator.com

* Extended the functionalities available in the custom case interior design website for Faes Cases BV.
* Added tools to the design tool box for measuring dimensions of design objects and also a ruler at the edge of screen.
* The measuring tool created in JavaScript using the Raphaël.js library are fully customizable to suit current and future enhancement needs for the website.
* The ruler was created in JavaScript using Raphaël.js library that will automatically rescale itself to fit the dimensions of the case being displayed and show measurements accordingly.
* All features of the newly developed tools are customizable on the fly and are self-contained to allow easy portability between projects.

## B2B solution for Faes Cases – ASML e-Invoicing via Ariba Network

* Developed an automated e-Invoicing solution to handle invoicing for [Faes Cases](http://faesgroup.com/faesgroup/nl/) with [ASML](http://www.asml.com/asml/show.do?ctx=427) via [Ariba Supplier Network](http://www.ariba.com/community/the-ariba-network)
* E-Invoicing solution generates and transmits cXML 1.2.024 Standard Compliant electronic invoices, directly from Faes Cases ERP system, transmits them via UltraESB using a dedicated file polling proxy service and are confirmed on the Ariba Network Supplier Portal
* E-Invoicing solution boasts a flawless execution track-record with zero code related issues since its inception into the production workflow.