

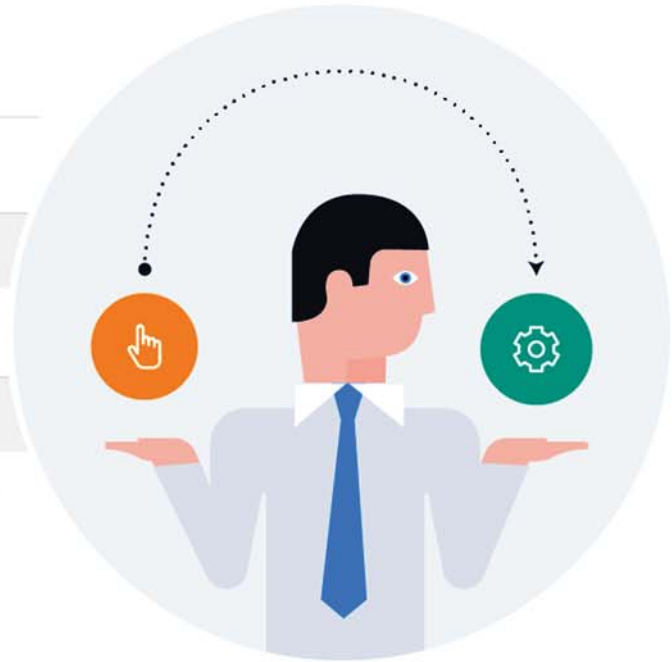
Project Overview

UniArt is a state of the art automated Graphics processing software. This product was developed for one of the largest publishing vendors. They wanted a solution to optimize their workflow efficiency and improve their productivity. Their existing workflow consisted of all manual efforts wherein they brought experts in Graphics processing to process the raw graphics and produce finished publishing ready files. Our implemented solution minimized the human intervention by automating most complex tasks with the use of Machine Learning based smart algorithms.

Business Requirement

The client approached us to analyze their Graphics processing workflow and identify possible opportunities for automation. They also needed a reliable method for conversion of their processed artworks to different formats like **.jpeg**, **.pdf** and **.eps** for their publishing needs. Gathered requirements include the following:

1. Extraction of graphics from submitted package
2. Identification of graphics type
 - › Raster
 - › Vector
 - › Vector with Embedded Raster
3. Processing of graphics as per guidelines
 - › Usability check
 - › Visibility enhancement
 - › Sizing
4. Saving graphics in different modes for web and print media



Solution

Our team of solutions architects audited their processing workflows, understanding the mundane details and requirements for their processing needs. We then bifurcated the project in two broad segments requiring: **(a)** conventional/rule-based automation and **(b)** Machine Learning/Deep Learning based solutions. Our team worked closely with the client to explain the hybrid development approach for their problems. We worked hard to develop robust server side applications for them to cover the end-to-end workflow and integrate the developed solutions without major changes in their existing workflows.

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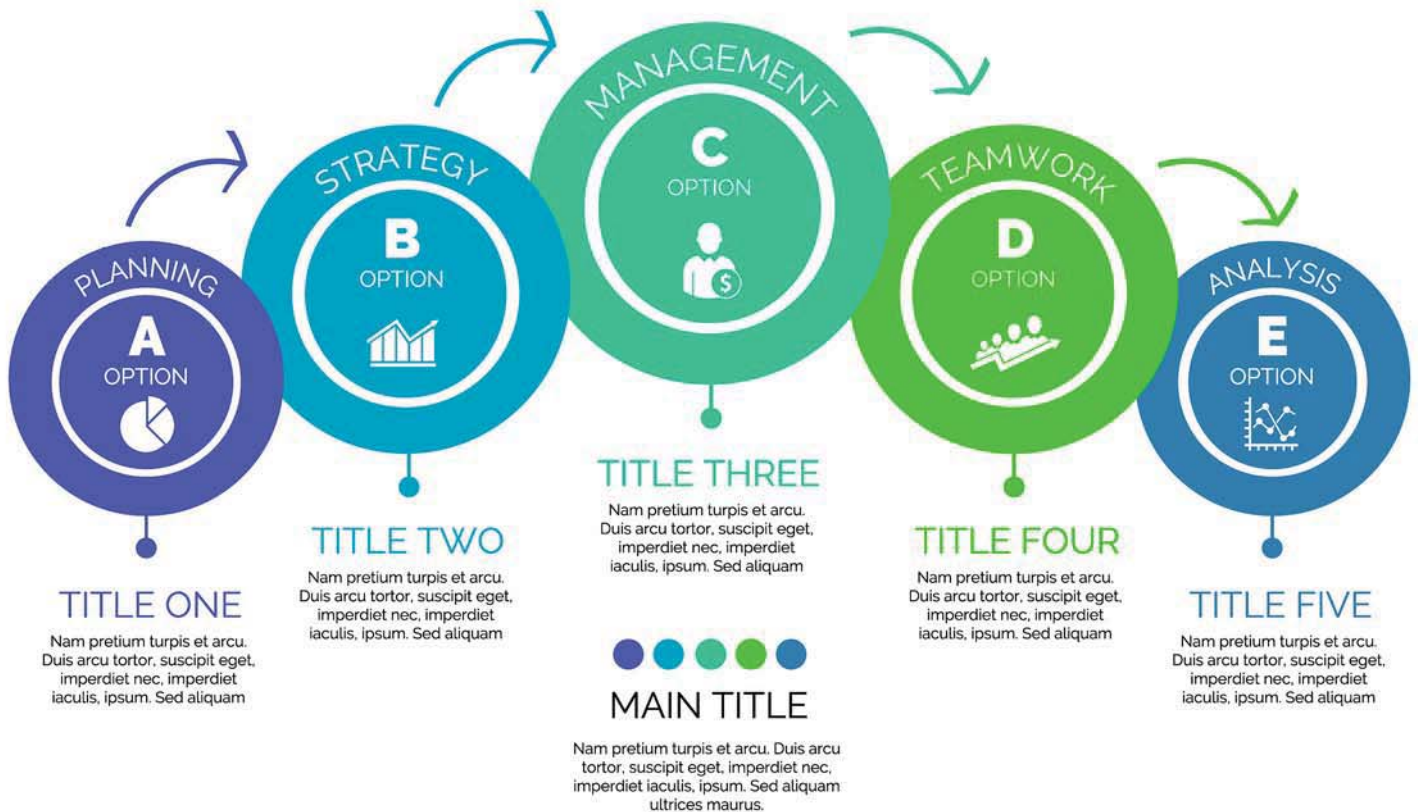
Our experienced developers make use of industry best practices to deliver the project with advanced functionality features. We also developed user manuals to help the users in identifying the manual validation touch points. We also helped them to identify gaps in their existing workflow while integrating the new solution to ensure a smooth transition with UniArt product integration.

Success

Our team worked closely with the client to understand the challenges and with their professional approach and dedicated team efforts helped them achieve over 40% efficiency gain in their productivity. Moreover, since the complex tasks were all automated, the quality of delivered graphics saw a drastic improvement and lowered the number of feedback in their processing.

Tools and Technologies

- C#/.Net for interfacing with input
- Python (OpenCV, Tensorflow, Pillow, pandas and more) for ML needs
- Adobe Photoshop, Illustrator for client specific requirements
- JavaScript



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