



CASE STUDY: Azure Dynamics

A world leader in the development and production of hybrid electric and electric commercial vehicles uses 3DVIA Composer to create high quality images.

Challenge:

AZD needed to improve the quality of their documents and decrease the time to create them due to the high demands for release.

Solution:

AZD's success with SolidWorks gave them the confidence that 3DVIA Composer would be the solution.

Results:

3DVIA Composer has greatly improved AZD's documentation creation process.

A world leader in the development and production of hybrid electric commercial vehicles

Azure Dynamics (AZD) has developed proprietary electric and hybrid electric drive technology for the light to heavy duty commercial vehicle categories.

AZD has expertise in the areas of vehicle controls software, power electronics, electric machine design, vehicle systems engineering and vehicle integration. The principal business of AZD is the supply of hybrid electric vehicle and electric vehicle control and powertrain systems.

AZD also has an established portfolio of proprietary component products that complement its core technical skills and makes use of an extensive industry supplier base to offer complete power train solutions to their target markets including delivery vans, shuttle buses and electric drive applications.

Challenge

Routing instructions were essentially screenshots from SolidWorks annotated using Microsoft Paint. The images were inserted into SolidWorks Drawings, Power-Point presentations, or Word Documents. AZD needed to improve

the quality of their documents and decrease the time to create them due to the high demands for release. When revisions were required, AZD had to recreate the image from square one. It took over two months to create a document for a single procedure. AZD takes pride in producing top quality products to their customers in a timely fashion. They strive to surpass goals at AZD and revisions to the documentation were only slowing them down.

Solution

AZD's success with SolidWorks gave them the confidence that 3DVIA Composer would be the solution. AZD successfully moved forward using the high-quality images created by 3DVIA Composer in their marketing content. Leveraging the 3D data allowed AZD to create views and images that were previously considered impossible to create with photographs. These images allowed them to communicate more effectively with their customers. "The views that I generate with 3DVIA Composer are excellent, I get a lot of compliments," says George Burns. "Every time I send an image to the service department I get positive remarks...they are blown away."



Benefit

3DVIA Composer has greatly improved AZD's documentation creation process. In fact, routing instructions, which had taken over two months to create, are now completed in one month using 3DVIA Composer. Additionally, 3DVIA Composer allows AZD to complete their work instructions 60% faster than they were able to by using their previous process. Utilizing the flexibility of 3DVIA Composer, engineering changes or changes in the procedure, can be quickly rolled out with minimal effort.

AZD effectively used 3DVIA Composer to impress their client, a major OEM auto producer, in design review meetings. They are able to easily create custom views, apply annotations, and create images for distribution to each party. "The OEM auto producer was impressed with 3DVIA Composer," says George Burns. The performance and ease of use has instilled confidence in George and his team at AZD to use this as a live tool in their meetings.

3DVIA Composer has given AZD the ability to migrate toward a paperless environment in both the service and manufacturing departments. Further, AZD is hoping to expand the use of 3DVIA Composer throughout the company. AZD is expecting great things for 3DVIA Composer and are confident that it will deliver.

