

Development of Engineering Standard Work for a US based Aero Engine Manufacturer

<p>Executive Summary</p> <p>In ESW (Engg. Standard Work) software tool has three main objectives. First, to consolidate and store individual engineering design expertise and knowledge in an organizational repository so that it is not lost when an employee resigns or retires from the company. Second, to provide easy access to this repository to engineers working in any part of the world. Third, to help improve quality of design and reduce rework through the use of a standard design process. Work output is based on proven practices using analytical tools and work flow travels in a predetermined path and methods are codified in a set of web based documents.</p> <p>The “Engineering Standard Work (ESW) Software System” is a web-enabled application developed by Infotech that provides technical content and data to engineering users in support of the engineering design and development process. Major components in ESW are the work flow maps, tools and methods, design criteria, design standards, lessons learned and practitioner’s proficiency assessments.</p>	<p>Engagement Metrics</p> <ul style="list-style-type: none"> • Contract Value: US\$ 0.40 million • Duration: 48000 person hours over 2 Years • Global delivery: 20% of total person hours • Share of work done in India: 80% of total person hours
<p>Client</p> <p>Pratt & Whitney , USA</p>	
<p>Business Issue(s) Addressed</p> <ol style="list-style-type: none"> 1. Automation of the existing manual approach for content lifecycle and approval workflow. 2. Improved accessibility of the content to improve the Engineers’ productivity by providing a centralized content management system 3. Developed automated tools to quickly transfer documents in a variety of legacy formats 4. Provided advanced search techniques to make the content highly visible. 	<p>Key Achievements / Deliverables</p> <ul style="list-style-type: none"> • Cost Saving of almost 30 % in Engg Design • Organizational knowledge repository

Development of Engineering Standard Work for a US based Aero Engine Manufacturer

How Infotech Helped

1. Helped by gathering, analyzing and documenting requirements of such high complexity from a group of power users.
2. Developed prototypes for better understanding
3. Designed robust architecture which can be made adaptable to future technology changes
4. Delivered the application on time, every time with consistent customer satisfaction
5. Responded to the customer feedback for continues enhancements of the system

Tools/technologies Used: IBM Websphere, Documentum, Oracle, Microsoft Visual studio, and Eclipse; JAVA, Visual Basic, VC++, XML

Methodology Adopted:

- Iterative software development
- SDLC under CMMi Level 5 processes
- Collaborative tools and dedicated communication channels for reviews/demonstrations with customer and for delivery of work products
- Automated testing tools to reduce testing time

Company Profile

Infotech Enterprises is a global software services company specializing in engineering design IT and geospatial solutions. Infotech is committed to helping clients across diverse industries improve their speed to market, optimise resources and reduce costs, thereby creating measurable business impact

Infotech provides services in the areas of Engineering design productivity tools, Avionics, ERP, EAI, Business Intelligence, e-biz, Corporate Portals and Knowledge Management. We enhance the customers' Business Processes using technology as an enabler to create competitive advantage. Our platform expertise includes IBM, Microsoft, PlumTree, SAP, Oracle, SUN and BEA, Documentum.

Contact Information

- USA: Solomon Joseph
solomonj@infotechsw.com
- India: Dr. Devendra Rao
raog@infotechsw.com
- www.infotechsw.com