



Front-End Engineering

Minimizing Risks and Improving Success

Service



Challenge

- Need a clear understanding of how your automation must change to accommodate your expansion?
- Do you know if your current automation is contributing to inefficiencies that are robbing you of cash?
- Need to establish the scope and budget of your automation projects?
- Do you desire to reduce overall cost by eliminating waste and rework from both engineering and construction ?
- Do you have skilled resources on staff who can tackle these challenges?
- Does your technical staff have the necessary time to research all of the details and foresee potential pitfalls?

Solution

Transfer a portion of the project you are considering and invest it in Front-End Engineering (FEE). **E-Technologies Group** is well-versed in today's technology and has undertaken the following types of Front-End Engineering projects for our customers:

1. Perform **feasibility studies** to quantify the confidence of implementing certain solutions. This can involve using simulation tools to model your processes, then comparing the results of alternate solutions to justify the appropriate path to success. One client avoided a capital outlay of over \$5Mil by uncovering lost productivity introduced by their material handling control system. Total cost of the feasibility study and implementation of the verified solutions was less than \$10K. ROI of the feasibility study was less than 1 month.
2. Research and publish **User Requirements Specifications** (URS) to be used as the basis for a Request for Quotation ("RFQ").
3. Audit the **Automation Network** at a site to establish its current capabilities, identify gaps, and plan the necessary upgrades and modifications to link current and future automation to the business processes.
4. Learn how other companies have benefited from incorporating new automation technology into their business operations then transform these ideas into practical multi-stage projects, complete with detailed scope, budgets, and schedule.
5. Create **corporate standards** based upon industry standards and best practices. The result is faster project execution, improved reliability, and faster troubleshooting through consistent use of technology.
6. **Evaluate** a site for conformance to corporate standards, especially important when the site is a new acquisition to the company.

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The Outcome

The main benefits to investing in FEE projects are:

1. **Minimizing the risks** of your investment
2. **Improving the success** of the overall project

The initial outlay is much less than a full-fledged project and the FEE project is focused on quantifying the variables, that left undefined, contribute both to higher contingencies in the project budget and schedule, and to costlier overruns. The investment yields savings in both time and money through better project management of scope, definition, risks, budget and schedule

With the statistics gleaned from the FEE, you gain a clearer insight into the business forces that are driving the project in the first place and thus yield a clear and realistic expectation of the ROI.

Services We Offer

- Perform Feasibility Studies
- Generate User Requirements Specifications (URS)
- Design Automation Networks
- Establish Corporate Standards
- Complete Site Evaluations
- Execute Reliability Audits
- Carry Out Validation Practices Audits.

Industries We Serve

- Life Sciences
- Pharmaceutical
- Consumer Goods
- Chemical / Process
- Food Processing
- Food Packaging
- Building Products
- Beverage Processing & Packaging
- Brewing
- Paper Converting Products
- Paper Making
- Parts Manufacturing
- Warehousing & Distribution
- Utilities
- Local Government
- And more

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