

UNIVERSITY OF MIAMI COLLEGE OF ENGINEERING



FEAM Billing Process Re-Engineering

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Conclusion

- The biggest problem in the FEAM billing process is the billing team receiving missing or incorrect information that often results in significant delays.
- We created standardized electronic forms for employees that connects to a database in which all needed information can be accessed.
- · These forms combine all the information needed to clarify and streamline the process by reducing errors, minimizing manual steps and redundancies, and increasing efficiency.
- · After all forms are submitted, the billing team will receive a report that compiles all required information to create an invoice.
- By designing forms and streamlining each process, we made an effort to create a simple, user friendly, and fast solution that FEAM can implement going forward.

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References

"Accelerating the Digitization of Business Processes." McKinsey & Company, www.mckinsey.com/business-functions/mckinsey-digital/our-insights/acceleratingthe-digitization-of-business-processes.

"Aircraft Maintenance and Engineering." FEAM Aero, feam.aero/. Bloomberg, Jason. "Digitization, Digitalization, And Digital Transformation: Confuse Them At Your Peril." *Forbes*, Forbes Magazine, 17 May 2018, www.forbes.com/sites/jasonbloomberg/2018/04/29/digitization-digitalization-anddigital-transformation-confuse-them-at-your-peril/#43e50b2a2f2c. "Support Overview: Visual Studio." Visual Studio, 5 Aug. 2019, visualstudio.microsoft.com/support/.