

Enhancing Workflow Efficiency with Power Automate & Power BI at Mobius LLC

A Professional Readiness Experiential Program (PREP) Project Effort

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Interested in being an Industry Participant and or PREP Sponsor? Please reach out to bngac@gmu.edu, Thanks!

Introduction

During my internship at Mobius LLC, I served as a Data Engineer/Cybersecurity Intern, where I focused on leveraging Microsoft Power Platform to improve the efficiency and accuracy of government contract management. My work centered on building automated workflows and developing interactive dashboards to replace manual processes and provide leadership with real-time, actionable insights.

Business Challenge

Mobius faced challenges in handling contract-related processes such as NDA tracking, onboarding, and financial reporting. Many steps were performed manually, leading to inefficiencies, delays, and the risk of errors. In addition, leadership lacked timely visibility into revenue trends, making it difficult to track contract performance and ensure compliance.

Activities Done to Address the Business Challenge

To address these challenges, I developed Power Automate flows that streamlined the NDA lifecycle, automatically generating agreements, routing them for signature through Adobe Sign, and storing completed documents in Dataverse while linking them to the correct records. Additionally, I built Power BI dashboards connected to the Dataverse *Opportunity* table, providing contract-level revenue insights, monthly recognition breakdowns, and running totals. I worked with multiple related tables, including *PR Lines* and *PR Labor*, to ensure accurate reporting and consistency across parent-child relationships.

Results & The Positive Impact

These solutions reduced manual tracking by over four hours per week, minimized the risk of errors in compliance documentation, and created a single source of truth for agreements and modifications. The dashboards provided clear visibility into financial performance, allowing leadership to make more informed decisions. Overall, the automations improved process efficiency, strengthened compliance, and gave stakeholders confidence in the accuracy of their data.

Conclusion

This internship provided me with hands-on experience in data engineering, workflow automation, and dashboard development while delivering measurable efficiency gains for Mobius. It also demonstrated how the integration of Power Automate, Power BI, and Dataverse could transform business processes and reduce administrative burden.

PREP Student Reflection

Through this experience, I gained practical skills in building scalable automation and analytics solutions while working in a professional government-contracting environment. I learned the importance of understanding both technical requirements and business needs to deliver solutions that drive real impact. This opportunity confirmed my interest in pursuing a career in data engineering and reinforced the value of combining data analysis with process improvement to create lasting organizational benefits.