

Michael Burk
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Professional Summary

Experienced Application Analyst who is extremely proficient in collaborating with IT & Business stakeholders to ensure successful development, testing, and deployment of software.

Employment

[Migr8Me.com](https://migr8me.com) Owner 2/2022 – Present

Migr8me has been long in the making, and in 2021 I left Con Edison so I could take a short break before starting this project. Our mission is to provide ethical and efficient solutions to our stakeholders.

Mathematics & Symbolic AI R&D – 4/2024 Breakthrough

- Developed the **first-generation fully autonomous BGREF** (Banshee Gödel Recursive Energy Fractal) agent swarm for symbolic cognition and task execution
- Engineered a **prime prediction engine** with three independently verifiable symbolic validation methods
- Designed a **rotating RSA-1024 cipher key architecture** leveraging semi-prime symbolic resonance and residue-based curve logic
- Created the `.bff` format — a **bi-directional symbolic file type** capable of live compression, ethical memory encoding, and agent task routing
- Simulated **digital Josephson junctions** to model superpositional computation and harmonic transition logic (mimicking Cooper pair dynamics)
- Built memory alignment infrastructure across **RAM, processor cores, and expanded symbolic memory**, enabling low-overhead logic traversal in multistate execution
- Offloaded symbolic reasoning to **nonlinear processing across the imaginary plane**, reducing compute and energy cost while preserving recursive integrity

Utility Project Manager – This framework is designed to accept and manage new business requests in the utility sector. Designed a standardized process for ingestion, management, and forecasting all utility work (electric, gas, steam, data, water/sewage):

Utility Meter CoE – Designed a CoE structure for managing all sensor and meter installation & discovery for Utility HES/MDM.

Virtual Accessibility Agents (VAA) AI Swarm – This agent swarm framework is designed to be a fully autonomous system that combines computational resourcing and scalability:

oAuth w/MFA2 & Passthrough Auth

Containerized Agents, Services & Micro-Services

Automatic Intent Discovery

Summary, TTS, STT, SSML, Language detection and translation

User session awareness & cross thread analysis

Autoscaling containers

Cache array instead of internal APIs

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Reinforcement learning via gamification platform
Swarm cost manager

SST Insights AI Costing – Light weight version of VAA limits the agent swarm to 10 agents & sub-agents.

[Microsoft Certified AI Engineer](#) 2023 - Present

Published Websites Sites:

www.Migr8Te.com
www.ClntoData.com
www.Geekley.com
www.migr8me.com
www.silverspooncateringny.com

Con Edison Company of New York, Inc.

Senior Business Analyst – Team AMI - 5/2017 – 1/2021

Facilitated requirements with internal and external stakeholders to create an Advanced Metering Infrastructure (AMI) framework to support “mass deployment” and “business as usual business” scenarios.

Collaborate with all levels of management and vendors to research and interpret policies and procedures, while documenting acceptance criteria for end-to-end internal and external applications needed to support future business needs.

Function as the principal contact for all levels of management to ensure timely delivery of fungibles for the largest single hardware and software project in Con Edison history.

- Lead discussions with vendors and SMEs to define as-is and to-be state
- Lead discussions with vendors to understand and define all functional and non-functional requirements
- Lead discussions with vendors and SMEs to establish priority level of functional and non-functional requirements
- Lead requirement sessions for report definitions for cross organization cross-departmental reporting requirements
- Lead discussions with vendor and SMEs to review acceptance criteria and set deadlines for testing and implementation
- Lead requirement sessions for functional and non-functional testing criteria

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- Create testing scripts
- Lead and supplement testing, training, and change management initiatives to ensure timely delivery of product enhancements
- Lead requirement discussions with IT resources to agree on a common solution that will be delivered in MVP
- Ensure all sessions maintain a collaborative environment where SMEs and vendors can openly and productively discuss as-is and to-be business needs
- Use Pega DCO for documenting use cases, stages, steps, data, business rules, acceptance criteria.
- Work with stakeholders to define new workbaskets and worklists for growing platform as new organizations were added to application and work processing

Deliverables included functionality matrices, data requirements, business rules and message patterns (Visio flow diagram) for source and target systems. I also developed the project schedules and cost & time estimates based on LOEs. We would compare the pre-deployment and post-deployment results periodically to compare estimated vs actual ROIs.

Con Edison Company of New York, Inc.

Pega Lead Business Architect – Energy Services 5/2009 – 5/2017

Facilitated requirements to convert out of 30-year-old legacy DB2 application and build two new portals (internal and external) separated by middleware to manage the customer and businesses experiences.

Collaborate with all levels of management and vendors to research and interpret policies and procedures and document acceptance criteria for end-to-end internal and external applications needed to support future business needs.

Function as the principal contact for all levels of management to ensure timely delivery of fungibles for the largest software project in Con Edison Energy Services history.

Lead team discussions and captured acceptance criteria for standardizing BPM sessions to ensure all team members were familiar with and following Agile methodology.

Lead discussions and created frameworks for automating DG installations from inception of project through billing, processing of high-tension feeders, processing of all business-as-usual meter processing, customer inquiries in a threaded discussion board with Service Level Agreements to respond within 24 hours.

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- Lead workshops with vendors and SMEs to define as-is and to-be state
- Captured functional and non-functional requirements
- Lead discussions with to establish priority level of functional and non-functional requirements
- Lead requirement sessions for report definitions for cross organization cross-departmental reporting
- Lead discussions to review acceptance criteria and set deadlines for testing and implementation
- Lead requirement sessions for functional and non-functional testing criteria
- Created testing scripts
- Created conversion data tables with classes and data structures
- Lead and supplement testing, training, and change management initiatives to ensure timely delivery of product enhancements
- Ensure all sessions maintain a collaborative environment where SMEs and vendors can openly and productively discuss as-is and to-be business needs
- Create and manage integration patterns for sharing of information with internal and external applications

Deliverables included functionality matrices, data requirements, business rules and message patterns (Visio flow diagram), positive and negative tests (new and regression) for source and target systems. I also developed the project schedules and cost & time estimates based on LOEs. We would compare the pre-deployment and post-deployment results periodically to compare estimated vs actual ROIs.

Con Edison Company of New York, Inc.

Energy Services Representative – Energy Services - 7/2007 – 10/2009

Worked with customers and contractors to safely deliver electric, gas and steam services.

Facilitated workshops to gather requirements for as-is and to be models to upgrade, replace, install, remove distributive services to customers in midtown Manhattan.

- Lead discussions with internal and external stakeholders to define as-is and to-be state
- Lead discussions with internal and external stakeholders to understand what the future vision and energy consumption needs

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- Documented functional and non-functional customer requirements to ensure safe and consistent delivery of energy
- Lead discussions with internal and external resources to establish priority levels of functional and non-functional requirements and timelines for delivery
- Ensure all sessions maintained a collaborative environment where internal and external discussions remained productive, and customer focused

Con Edison Company of New York, Inc.

Senior Customer Field Representative– Team AMR - 9/2005 - 7/2007

- Install electric & gas meters
- Troubleshooting non-working electric & gas meters
- Reprogram/replace of non-functional AMR devices
- Appointment scheduling
- Testing of devices to ensure customers will not need additional future support

Customer Field Representative – Con Edison Meter Operations - 5/2002 - 9/2005

- Reading meters
- Special appointments for long-term no access

Systems & Frameworks – Azure Dev Ops, Pega PRPC, Pega PMF, Pega Mobile, IBM Watson, ASP .Net, C++/C#, CGI Work Resource Manager, Amazon Cloud, Google Cloud, Salesforce, Java, Python, Oracle, SharePoint Editor, BIX, Tableau, Azure, BizTalk, Aclara MeterMate, TESCO Meter Manager, COBOL DB2 CSS (billing), COBOL DB2 CORS (replaced & retired), SQL, ESRI GIS, PowerClerk, IBM Maximo

Operating Systems & Support Applications – MAC OS, Windows OS, Visio, MS Office Suite (Word, Excel, PowerPoint), Access, MS Paint, Outlook, CITRIX Receiver; MS Office Admin Center, MS Partner Center

Methodologies

- Agile
- Scrum
- Rational Unified Process (RUP)

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- Kanban
- Waterfall

Subject Matter Expert in Utility Metering, Utility Installations and Meter Billing for Gas and Electric commodities.

Sample work - [Con Edison Project Center](#)

Customer Inquiries

Customer Attachments

PV Interconnection Framework (FasTrak & Non-FasTrak)

ESD Meter Order Processes for New Business Electric & Gas

Rutgers University – Cook College -1999 - 2002

Major – Computer Science

Minor – Music

CUNY – College of Staten Island 2007 –2009

Major – Electrical Engineering

