

# Technology Expertise Profile

## M2M – Internet Of Things

### PROJECTS

- Set Systems and Enterprise Management strategy at a corporate level for a Fortune 500 company.
- Remote diagnostics and support for an office level imaging device.
- Reverse engineered medical devices for aggregation into a remote M2M service platform.
- Predictive service requests for mobile refrigeration units.
- Direct experience with industry leaders in the M2M space (Axeda/Questra, ThingWorx, CA, etc.).

### ACTIVITIES

#### Hardware

- Enabling/Porting various M2M products onto custom hardware / operating systems.
- Creating drivers to gain access to specific data to be tracked via M2M.
- Parts selection, design for secure access to facilitate M2M connectivity.

#### Embedded

- Custom M2M connectors to communicate device data back to Enterprise/Cloud.
- Dead-banding and rules engine to facilitate “quiet” device communication.
- Utilized M2M principles to facilitate installation, command and control of a large distributed system.

#### Enterprise / Cloud

- Enterprise side Rules Engine.
- Custom OpenStack solution to facilitate M2M scaling.
- Data Base integration.

#### Big Data

- Feature usage and tracking for an office product. Analysis led to dropping unused features which reduced costs.
- Device and service data analysis led to fines on a vendor not meeting quality targets in addition to pre-emptive maintenance which kept device in field operational and customer perceptions of quality high.



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## Above and Beyond

Active in IEEE Printer Working Group around printer management. Strong consensus building and ability to drive International Standards.

Headquartered in Rochester close to major industry players Axeda and ThingWorx.

Many more projects, technologies and experience that can not be divulged due to NDAs.