Engineering Services
System Engineering
NovareSys, LLC

Projects

- Architecture, design and development of embedded and host software for printers, MFPs, scanners and cameras.
- Embedded Linux for industrial control, monitoring and remote diagnostics.
- Remote diagnostics and M2M connectivity for an office-level imaging device.
- Reverse engineered medical devices for aggregation into a remote M2M service platform.
- Hardware enablement, board support and device drivers on custom hardware platforms.

Activities

System Architecture

- Requirements to architecture, including hardware / software partitioning.
- Platform, operating system and component selection across many hardware platforms and OSs.
- Performance, memory footprint and Unit Manufacturing Cost (UMC) budgeting.

Embedded and Hardware Enablement

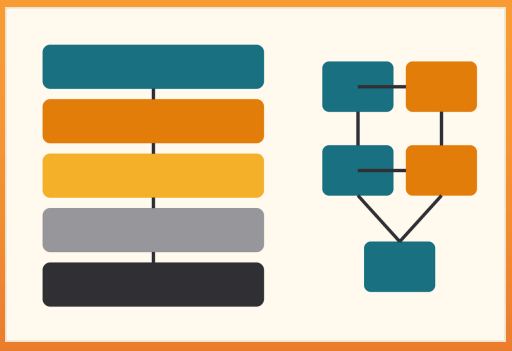
- Board Support Package (BSP) integration and bring-up of custom hardware.
- Device drivers: image accelerators, frame buffers, DMA engines and custom interfaces.
- Real-time applications and secure parts selection for M2M connectivity.

Application, Enterprise and Cloud

- Custom embedded and host applications for desktop, server and mobile (iOS / Android).
- Custom M2M connectors, rules engines, database integration and OpenStack solutions.

Integration and Optimization

- System integration and debugging of internals: memory leaks, drivers and power management.
- Performance analysis and tuning of the full data path, from device to cloud.



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Above and Beyond

Analysis of hardware limits in data throughput before they become schedule problems.

Ongoing monitoring of and contributions to Linux, embedded and M2M communities, journals and conferences.

When it comes to deploying emerging technologies and standards, we have seen it and done it before.