

Technology Expertise Profile

Digital Imaging

PROJECTS

- Printer, MFP, and wide format embedded controller hardware and software.
- Photo and page scanner embedded controller hardware, embedded software, and host software.
- Digital camera embedded controller hardware, software and host software.
- Image path redesign, optimization and customization.

ACTIVITIES

Embedded Controller

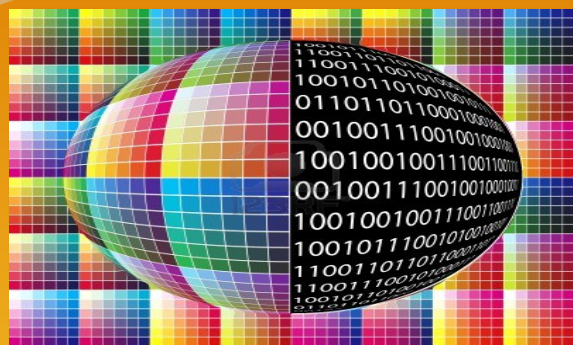
- Board Support Package (BSP) level integration to various hardware components for Digital Cameras.
- BSP level integration to various hardware components for print/MFP devices.
- Various hardware platforms.
- Various operating systems.

Device Driver Development

- Image Accelerator Processor.
- Frame buffer driver.
- Image Compressor/DMA VCEP driver.

Application Level

- Experts in CSR (formerly Zoran) IPS printing technology.
- Redesign and customization to support White Balance, Auto focus, camera work flow, and camera modes
- Debug rendering issues
- Redesign and customizations: color planes, banding, sniffing, page queueing and error recovery
- Develop Scan to service.
- Formatting raw image data into PDF, JFIF, or TIFF, etc. format
- Performance analysis and optimization of imaging path, producer to consumer balancing, buffering, etc.
- Vendor specific extensions to PDL to support various printer options and capability.
- Streaming / Video On Demand
- Set-top boxes.



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Above and Beyond

Redesign of the image copy path to examine issues such as real-time copy vs. scan, then print.

Mobile Printing / Imaging.

Analysis of hardware limits in data throughput.

Participation in Printer Working Group.

Enterprise and Systems management of network devices.

User Interface Design and usability.