

# Technology Expertise Profile

## Linux Operating System

### PROJECTS

- Embedded Linux for industrial control, monitoring and remote diagnostics.
- Embedded Printer Controllers, high speed mono and color engines.
- Evaluation and recommendation of embedded platforms and Linux variants.
- Porting Applications from various Operating Systems to Linux.
- Embedded Linux performance and memory footprint system tuning.
- Others projects under client's Non-Disclosure Agreement.

### ACTIVITIES

#### Kernel Level

- Debugging of Linux internals -- Includes memory trashing/leaks, device driver problems, power management.
- Kernel Configuration -- Boot scripts, tools, custom kernel to meet specific customer requirement.
- Performance/System Tuning -- Focus on lowering the Unit Manufacturing Cost (UMC) for product production.

#### Device Driver Development

- Image Accelerator Chips • Frame buffers • Custom 1394
- Linux Network boot system for loading kernel and root file system. Used to load Linux disk images.
- Modification of existing Linux drivers to support new and unsupported hardware.

#### Application Level

- Development of custom embedded and host Linux Applications for various clients.
- Power Management using APM and ACPI.

#### Administration

- General admin: SAMBA, NFS, cron, linuxconf, rc.d etc.
- Installation and setup of various tools, RPM, unsupported packages, etc.
- Building and installation of applications such as OpenStack, Apache, PHP, MySQL, etc.



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## Above and Beyond

Ongoing monitoring and contributions to Linux newsgroups, Embedded Linux Journal, Embedded System Programming, Embedded conferences etc.

Office computers and servers running various version and vendors of Linux.

Staff personal use of Linux for home networks, telecommuting and special projects.