



## Project Description:

An automated movie rental system that allows customers to browse, select and rent the latest DVD releases. It utilizes the internet to provide a transaction receipt via email and permits a rented movie to be returned at any kiosk in the system.

## Key Features / Project Highlights:

- Led engineering team in development of first production kiosk model, providing project management, design engineering and manufacturing support; similarly instrumental in development of all subsequent models
- Requirements Analysis, System Architecture, Analog and Digital Hardware Design, Mechanical Design, Embedded and Linux/Windows Software Development, Prototyping, Design Validation and Compliance Testing, Production Support, and Project Management
- Developed all embedded electronics and software to exercise full control over a multitude of Robotics and System elements, including servos, DC motors, optical sensors, solenoids, solid-state relays, LEDs, etc.
- Custom design of an extreme-small-footprint Virtual Machine and Robotics Control Programming Language and development tools
- Developed low-maintenance Robotics Control programming, embedded firmware, host drivers, communications protocols and Application Interface
- Developed time-saving tools, procedures, diagnostics and utility software to aid manufacturing and field service



## About LocoLabs:

LocoLabs is a Silicon Valley, CA provider of custom and turnkey development platforms and modules for embedded designers. It is our mission to accelerate your product development, drawing on more than a decade of experience tackling tough embedded design problems for leading suppliers of consumer, computing and commercial systems.

In our engineering and design work, LocoLabs customers call us the “Rev-Zero” company. With success stories in consumer electronics, commercial robotics, HD video and instantly deployable wireless networking, our experience reinforces the value of fast prototyping and hardware/software co-design. LocoLabs’ cross-trained Embedded, Multimedia, Wireless and Linux experts in our Silicon Valley design center are available to support your rapid product development.

