

# Ridge Labs



Engineering and  
Business Leadership



# Overview

- Core team of software experts and leaders
  - Additional former colleagues available
- Based in Southern NH, but with international coverage
  - Travel and remote management experience
- Software Development Services
  - Video experts
- Engineering Leadership Services
  - Program/Project Management
  - Team Building and Mentoring
- Video Tools
  - MIRTH test automation tools for video devices



# Areas of Expertise - Development

- Video
  - DVD – Detailed knowledge of the DVD-V, Blu-ray, and HD-DVD specifications and markets
  - HDTV – Video, audio, transmission, ATSC, cable, satellite
  - Video Conferencing – Video processing, call connection/completion – RTP/H.323/H.320/SIP, multi-point conferencing
  - VoD – Video on demand systems, bandwidth management
  - Ad insertion – Cable MSO head ends, closed video networks
  - Codecs – MPEG-1, MPEG-2, MPEG4 AVC/H.264, QuickTime
- Windows
  - GUI design and implementation
  - Drivers – VxD, NT Kernel Mode, WDM
- Embedded Systems
  - Embedded systems design – small to large systems
  - Various RTOS's – Linux, Nucleus, pSOS, others
  - CPUs – MIPS, x86, 29K
- Web
  - Web site design
  - ASP, VB, CGI, PHP, SQL
- Telephony
  - Call routing, SIP
  - ISDN
  - Fax and data telephony
- Digital Office Equipment
  - Image Processing
  - Still Image Codecs – TIFF, JBIG, JPEG, CCITT G3/G4, ITU T.4/T.6/T.30, PCL/PJL
  - System design of printers, copiers, scanners, fax

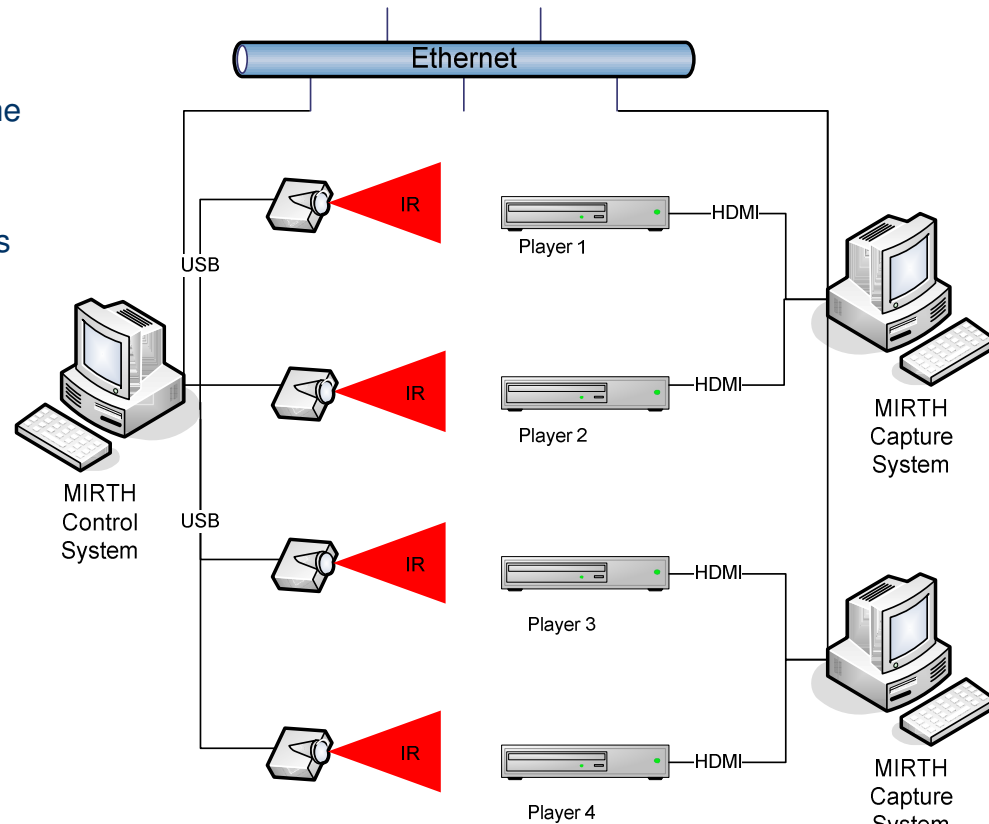


# Areas of Expertise – Engineering Management

- Program and Project Management
  - Successful product delivery - high visibility products, Fortune 50 companies
  - Scales from tiger team to large system integration
  - Schedule, budget, and personnel management
  - Experience in consumer electronics, silicon products, software products, high-reliability internet services
- Outsourcing and International Management
  - Joint development with major Japanese and Korean companies
  - Management of engineering teams in India, Canada
- Team Building
  - Combined hiring of over 100 engineers
  - Known for building top-notch teams
  - Ground up development of software engineering teams at four start-ups
  - Mentoring – several successful programs for coops and recent grads
- Engineering Leadership
  - Start-up management team experience
  - Acquisition management and integration of acquired teams
  - Technical presentations – customers, investors, boards of directors, acquirers

# Products – MIRTH (Multi IR Test Harness)

- Easy to Use
  - Simple **graphical user interface** and/or command line driven for **batch testing**
  - **Email** reporting of results
  - All information saved in Excel importable **text log** files
- Script driven
  - Python scripting language
  - Sends IR commands to player via IR blasters (UIRT)
  - Accurate timing of commands for **repeatable results**
  - Controls multiple players simultaneously
  - Automated comparison of player feedback with expected information or between players.
- Accurate
  - Capture and comparison of digital audio and video output for **objective results**
- Tools for easy regression and stress testing
  - Generate scripts from logs of previous tests
  - Generate scripts for random tests
- Expandable
  - Can learn commands for any device
  - Not dependant on input data source
  - Can be adapted to test any video device



# History of Success



LG BH-100  
Winner: Best of CES 2007



Samsung BD-P1200



Toshiba HD-A1



ScclP high-reliability  
Modem-over-IP network



CU-SeeMe Video  
Conferencing System



HP Mopier 240 and  
Mopier 320



# Contact Information

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