# Michael Haimson

# OBJECTIVE

Senior-level systems engineer/architect, senior project engineer, product manager, engineering manager or new business developer for consumer/business products or commercial construction projects

## SUMMARY

- High-energy, quick thinker has the breadth of experience to see the big picture yet has the skill sets to work at an in-depth level
- Seventeen years experience working on systems engineering and systems architecture
- Experience as product manager and new business development manager
- Experience working on projects in the United States, Europe, Asia and the Middle East
- Experience as designer for consumer and business electronic products and systems
- Construction management for commercial building-wide and campus-wide projects
- Comfortable collaborating as part of a team or directing the work of others
- System experience includes:
  - audio-video-control systems for themed attractions
  - telecommunications broadcast audio and video
  - streaming multimedia wireless communications
    - interactive multimedia
  - robotic systemsinternet data centers
    - consumer electronics
- custom software for user interfaces
- local and wide area networks
- satellite and cable television delivery
- virtual reality and high-end graphics
- high-volume manufacturing

## EXPERIENCE

Carousel Interactive Technologies, San Jose, CA

- Owner and Principal Consultant, 1995-present
  - Provide consulting services for systems design of audio, video, telephone, data network and satellite television systems for commercial buildings
  - Provide contract product management and project management for complex electronic systems and products
  - Write system-level specifications and manage tender bidding process
  - Design internet data centers and web hosting / streaming facilities
  - · Serve as construction manager for systems integration companies on large building projects
  - Serve as client representative for building technology specification and architectural liaison
  - Provide design services for consumer and business electronic products
  - Provide technical design and management expertise to support themed entertainment systems and public attractions
  - Manage custom software development for graphical user interfaces and web-based control systems

#### Key Projects:

Stanford University Surgical Simulation Lab, Stanford, California (subcontractor to David Carroll Associates)

- o Managed the process to identify the user requirements from the doctors and surgeons for the overall facility
- Modified the system design to support surgical mannequins, stereoscopic graphical imaging, multiple channel video recording, and haptic surgery trainers
- Worked with Stryker Endoscopy to design a system interface with their Operating Room equipment and the custom audio-video equipment in the Simulation Lab

Stanford University Radiology Interactive Classroom, Stanford, California (subcontractor to David Carroll Associates)

- Worked as Senior Project Engineer on the design and installation of interactive classroom for the Radiology Department containing three hi-resolution projectors (instructor screens) and five plasma displays (student workgroups)
- Managed design of Graphical User Interface requirements and software programming involving custom software and customized hardware
- o Provided user training to faculty and staff

Bur Juman Shopping Center Expansion, Dubai, United Arab Emirates (subconsultant to Shen Milsom & Wilke)

- Managed low-voltage design team for audio, video, telephone, data network, satellite television systems for two million square feet mixed use retail, office, hotel and apartment project
- o Designed key components of all systems and coauthored system specifications
- o Interviewed integrators in Dubai and helped select winning tender respondent
- o Reviewed shop drawings and construction progress in Dubai during several trips and helped train operations team

Singapore Supreme Court New Building, Singapore (subconsultant to Shen Milsom & Wilke)

- Designed streaming media system to record court trials from multiple cameras and microphones
  Wrote specifications for software system to allow users to review the trial footage and provide text transcription
- services and link the text to the audio-video feeds
- o Designed infrastructure required to install equipment in the new building

#### Private residence for Billionaire, Northern California (subconsultant to MCSi)

- Managed the construction progress in the field and commissioned the satellite system
- o Designed hybrid fiber-coax satellite master antenna television system for small campus of buildings
- o Assisted with the design of the distributed audio and video systems throughout the complex

#### Intel Streaming Media Data Center, Portland Oregon & Reading, UK (subconsultant to MCSi)

- Designed the systems and infrastructure to support web-based audio-video encoders in a broadcast studio and web hosting facility
- Performed lab evaluation of several brands of hardware encoders that utilize digital video (SDI) and digital audio (AES) interfaces with Windows Media and Real Networks software codecs
- o Coordinated with Microsoft Corporation to help locate several bugs found in Windows Media Encoder

Pogo.com (Electronic Arts) Online Game Data Center, San Francisco, California (direct consultant)

- Designed the local and wide area network infrastructure and the facilities equipment for two data centers and the corporate office building
- Managed the construction in the field and served as the client technology liaison to the general contractor and the building architect
- o Managed the bid process for the structured wiring contractor

Sony Metreon Mall and Entertainment Center, San Francisco, California (direct employee, Sony Development)

- o Served as Senior Project Engineer responsible for all the attractions
- Managed the design, construction and installation of the audio, video, show control and ride control systems
- o Designed the high-level and low-level technical systems based on artistic meetings with the show creative team
- Wrote scope documents and awarded contracts to various systems' integrators involved in the project

Disneyland Tomorrowland Renovation, Anaheim, California (subconsultant to Richanbach and Associates)

- o Served as technology project manager for large interactive pavilion, "Innoventions"
- Worked as systems engineer with Walt Disney Imagineering for show control, computer systems, media delivery systems, telecommunications, data networking, and electric power
- o Divided creative design into biddable packages including scope, schedule and budget.
- Selected vendors and awarded contracts for audio, video, lighting, show control, computer systems, media and graphics

Total Entertainment Network Online Game Data Center, San Francisco, California (direct consultant)

- Managed the system design and installation of a large computer data center that supports a multi-player game service over the Internet
- o Served as overall hardware system architect and facilities designer
- Coordinated the installation of two OC-3 fiber optic connections to the Internet
- o Configured Sun Microsystems servers and Cisco routers.

Shark Rack Custom Rack Mount Solutions, Sunnyvale, California (cofounder and inventor)

- o Raised money to support new product line idea
- Designed eight products that provide supplemental cooling and rack mounting for Sun Microsystems computer equipment
- Patented aesthetic design for large server rack mount system, patent # D428,892
- Managed construction of prototypes and initial production units throughout metal fabrication, finishing, wiring and packaging

Netscape, Inc. Web Site Testing and Validation, Mountain View, California (direct contract)

- o Co-founded company "WebChecked.com" to provide web site validation and testing
- Tested Java, JavaScript and basic HTML software against various Netscape browser versions and Windows, Macintosh, Sun Solaris and Silicon Graphics Irix operating systems
- o Analyzed TCP and UDP connection performance through four different firewall products

Custom Web Page Design and Hosting (various clients)

- Designed, created, and managed Internet web sites using HTML, Java, JavaScript, Shockwave, C and integration with various database systems
- o Provided hosting services on Silicon Graphics and Sun Microsystems servers

## Silicon Graphics, Inc., Silicon Studio, Mountain View, CA

# Manager, Strategy and Business Development, Location Based Entertainment, 11/94 to 3/95

- Developed new business model for Location Based Entertainment systems using interchangeable software on standard systems with common open interfaces
- Planned and coordinated industry-wide summit on how to make the LBE market succeed
- Worked with facility operators, content creators and software tool developers to understand their unique requirements for the SGI-based real-time graphics entertainment industry

### Iwerks Entertainment, Burbank, CA

## Product Manager for Interactive Attractions and Senior Systems Engineer, 7/93 to 11/94

- Managed design, development and product roll-out of Virtual Adventures: the world's first high-throughput virtual reality attraction
- Helped position the company for a successful Initial Public Offering (IPO) On October 19, 1993
- Wrote system requirements, co-developed system architecture, analyzed market demand, trained sales staff and managed system construction and installation into initial customer facility
- Developed business plan for new interactive product line focused at high-tech family entertainment
- Served as company's interactive expert and spokesperson at international conferences and seminars

### AT&T Bell Laboratories, Indianapolis, IN

## Member of Technical Staff - Team Leader, 1/92 to 6/93

- Managed small team of engineers and business development personnel
- Designed prototypes of new consumer products and services that utilize voice and speaker recognition, video telephony, touch-screen appliances, interactive television and wireless personal communications
- Assisted with design for nationwide video telephone service utilizing CATV system and set top boxes

## AT&T Bell Laboratories, Naperville, IL

## Member of Technical Staff, 5/85 to 12/91

- Led 50-person team which defined the architecture and design parameters of a new line unit for analog and digital (ISDN) lines for united states and international markets
- Developed architecture for new system to use wireless in-building "private cell sites" for voice communications in a typical office building
- Managed architecture team that provided a high-speed optical interface (SONET) to the 5ESS-2000 telephone switching system
- Served as member of core architecture team for the 5ESS-2000 telephone switching system
- Designed new line interface hardware to solve an audible click problem with Taiwanese coin phones and demonstrated the solution for the customer in Taiwan
- Received "One Year On Campus" fellowship to pay for fulltime master's degree in electrical engineering

## General Dynamics, Fort Worth, TX

## Electrical Engineering Intern, Summer 1983

- Created and taught a course covering use of a new Cincinnati Milacron 776 industrial robot
- Designed robot end-effector for use in the course
- Wrote the electrical section in an Air Force manual on a robotic positioning device

### EDUCATION

#### MSEE, Oklahoma State University, 8/86, GPA = 3.8/4.0

Thesis Project #1: Creation of new course, "Practical Engineering Design" (which is now a required class) Thesis Project #2: Design of four-legged walking and talking robot named Pegasus

BSEE, Oklahoma State University, 12/84, GPA = 3.7/4.0

# Sample Projects – Michael Haimson





**Disneyland Tomorrowland Innoventions Attraction** 





Sony Metreon Wild Things (left) and Air Tight Garage (right) Attractions





Iwerks Virtual Adventures 3D Interactive Attraction





Bur Juman Shopping Mall, Office Tower, and Apartments