



Carousel
Interactive Technologies



Michael Haimson
Principal Consultant

Creative Ideas...

Project Management

- Creation and/or tracking of budget and schedules
- Identification of major interdependencies
- Negotiation with subcontractors over scope
- Status reporting between subcontractors and client
- Development or analysis of business cases

Audio, Video, and Controls Design

- Sound reinforcement, broadcast, and distribution systems
- Video projection, complex and stereoscopic displays
- Virtual and augmented reality, HD and UHD video systems
- Satellite, cable, and IP television distribution systems
- Control systems for audio-video systems and attractions
- Complex user interfaces and interactive systems
- Building management and environmental systems

Blue Sky and Brainstorming

- Participation or leadership in brainstorming sessions
- Planning research trips and design charrettes
- Subject matter expertise in breadth of technologies
- Provide technology alternatives and trade-offs in real-time

Product Design

- Hardware and software development
- Industrial design and design for manufacturability
- Concept drawings, 3D modeling, and mock-ups
- Prototype evaluation and cost optimization

Project Engineering

- Senior level systems and component design
- Coordination with architects, consultants, and contractors
- Creation of detailed requirements and bid specifications
- Evaluation of bid responses and company credentials
- Trips to the field to review progress and resolve problems
- Review of shop drawings, training, and documentation
- Preliminary and final system functionality verification

Telecom, Datacom, and Security Design

- Campus and WAN-based video telephony systems
- Data centers, web-hosting, and AV streaming facilities
- Command and control, network operations centers
- Building and campus network systems and infrastructure
- Telephone switching and transmission systems
- Campus and wide area CCTV systems and analytics
- Access systems and biometrics

Electronic and Mechanical Systems Design

- Ride systems, animatronic props, and characters
- Robotic systems for manufacturing
- Mechanisms for automated scenery and lighting systems
- Electrical control for mechanical systems
- Design for manufacturability and maintainability
- Reliability and safety studies and certification

...Technical Solutions

CONTACT:

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Sample Projects – Michael Haimson

Project Engineer / Project Manager / Systems Architect
Product Manager / Media Producer / Engineering Manager

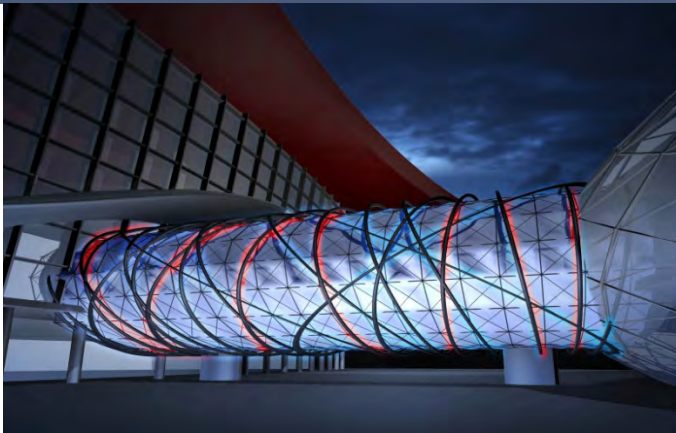
*Audio, Video, Projection, Controls, Networking, Telephony, User
Interfaces, Ride Systems, Animatronics, Broadcast, Theater, Satellite,
Wireless Communications, Product Development, Business Development*



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Masdar City – Abu Dhabi, UAE



Ferrari Shopping Mall Gateway Bridge Experience – Abu Dhabi, UAE



Salem Resort and Spa – Yiti, Oman

Sample Projects – Michael Haimson

Project Engineer / Project Manager / Systems Architect
Product Manager / Media Producer / Engineering Manager

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Ferrari World Amusement Park Attractions – Abu Dhabi, UAE



Trikke Transportation Systems (Part of the Bond Group): Product development for custom electronics and RTA-sponsored debit card leasing concept (Designed in Dubai, UAE)



Stanford Medical School Surgical Simulation Center – Stanford, California, USA

Sample Projects – Michael Haimson

Project Engineer / Project Manager / Systems Architect
Product Manager / Media Producer / Engineering Manager

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Stanford Medical School Radiology Learning Center - Stanford, California, USA



Disneyland Tomorrowland Innoventions Attraction – Anaheim, California, USA



**Sony Metreon Wild Things (left) & Air Tight Garage (right) Attractions –
San Francisco, California, USA**

Sample Projects – Michael Haimson

Project Engineer / Project Manager / Systems Architect
Product Manager / Media Producer / Engineering Manager

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**Iwerks Virtual Adventures 3D Interactive Attraction – Norfolk, Virginia, USA
(Designed in Burbank, California, USA)**



Bur Juman Shopping Mall, Office Tower, and Apartments – Dubai, UAE



**Intel Network Operations Center, Web Hosting, and Audio-Video Streaming Data Center –
Winnersh Triangle, Wokingham, UK**

Sample Projects – Michael Haimson

Project Engineer / Project Manager / Systems Architect
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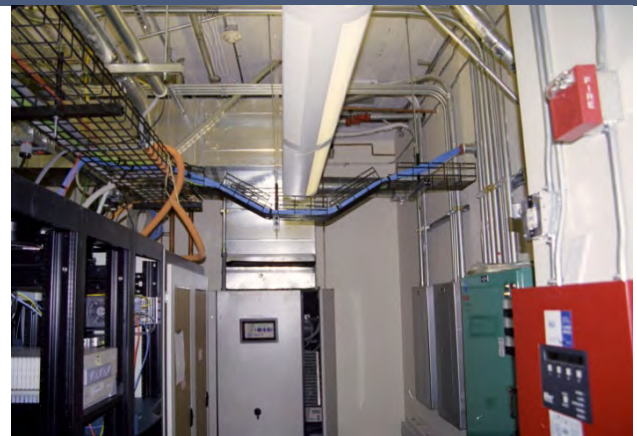
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Billionaire Private Estate – Woodside, California, USA



Billionaire Private Residence Tower and Banqueting Facility – Mumbai, India



**Ten.net & Pogo.com Corporate Offices and Data Center – San Francisco, CA
(Now part of Electronic Arts)**

Sample Projects – Michael Haimson

Project Engineer / Project Manager / Systems Architect
Product Manager / Media Producer / Engineering Manager
*Audio, Video, Projection, Controls, Networking, Telephony, User
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**Shark Rack: Product development of Active Cooling Systems and Rack Mounting Adapters
(Designed in California, USA)**



**Workspace Safes: Product development of Personal Electronics Security Enclosures
(Designed in California, USA)**



OBJECTIVE

To work as a senior-level design engineer, project manager, product manager, engineering manager, or new business developer for commercial construction projects or product development. Of particular interest are projects which blend technology and creative content such as amusement parks, museums, live theater, and large public spaces.

SUMMARY

- 23 years experience managing people, projects, and products
- 15 years experience as an independent consultant (Carousel Technologies)
- Worked on dozens of very large construction projects and have served as the client representative, or a design consultant, or a systems integrator
- Bachelor of Science and Master of Science degrees in Electrical Engineering (Oklahoma State University)
- Design of audio, video, telecommunications, data networking, computing, security, building automation, lighting, satellite, cable, and IPTV systems
- Amusement park attraction design, complex video projection systems, virtual reality and visualization systems, entertainment lighting and effects, and mechanical ride systems
- Experience working with the client and the creative team on film and video content productions for complex visual displays, video walls, and attractions
- Design of interactive systems, graphic user interfaces, complex control systems
- Design of computer data centers, telecommunications facilities, and buildings with very complex systems

EXPERIENCE

Carousel Interactive Technologies, San Jose, CA

Owner and Principal Consultant, 2010-present (continuation)

- Provide consulting services for large commercial projects all over the world
- Provide contract project and product management for consumer and business products
- Develop business plans
- Write system-level specifications and manage tender bidding process
- Serve as client representative for building technology specification and architectural liaison
- Manage software development for graphical user interfaces and web-based control systems

Masdar City (Abu Dhabi Future Energy Company), Abu Dhabi, UAE

Audio-Video Content Manager, 2009-2010

- Designed and managed the installation of complex audio-video, computer networking, and entertainment lighting systems
- Developed and managed the production of creative content including film, video, web, and interactive media
- Supported Information and Communications Technology (ICT) department for design of systems and infrastructure
- Supported Corporate Marketing department for trade shows and events

ELV Consult (part of the Bond Group), Dubai, UAE

Principal Consultant and Acting Managing Director, 2008-2009

- Hired and developed extra-low-voltage consulting services team
- Managed marketing and business development
- Designed and managed the installation of audio, video, telecommunications, data networking, computing, security, building automation, lighting, satellite, cable, and IPTV systems

ELV Consult Key Projects:

Ferrari Shopping Mall Gateway Bridge Experience – Abu Dhabi, UAE

Concept and detailed design for walk-through 40 meter tunnel wrapped in an custom LED mesh with video content, multi-channel audio, and lighting effects.

Salam Resort and Spa – Yiti, Oman

Design of telecommunications and data communications site-wide infrastructure for resort with 4 hotels, a shopping mall, and 1400 villas.

Ferrari World Amusement Park Attractions – Abu Dhabi, UAE

Detailed design review and liaison with systems integrator for audio, video, projection, show control, lighting and content development for the attractions.

Trikke Transportation Systems (Part of the Bond Group) – Dubai, UAE

Electrical and mechanical product development for custom electronics and concept development for citywide debit-card leasing of Trikkies at RTA Metro stations and throughout Dubai.

Carousel Interactive Technologies, San Jose, CA

Owner and Principal Consultant, 1995-2008

- Provide consulting services for large commercial projects all over the world
- Provide contract project and product management for consumer and business products
- Develop business plans
- Write system-level specifications and manage tender bidding process
- Serve as client representative for building technology specification and architectural liaison
- Manage software development for graphical user interfaces and web-based control systems

Carousel Interactive Technologies Key Projects:

Billionaire Private Residence Tower and Banqueting Facility – Mumbai, India

As a specialist consultant, designed entertainment systems, interactive displays, mixed media and large displays, networked media delivery, satellite television delivery, and lighting control.

WorkspaceSafes.com – San Jose, California, USA

Designed and created prototype electrical systems and mechanical subassemblies including a new line of biometrics.

Carousel Interactive Technologies Key Projects (Cont'd):

Stanford University Surgical Simulation Lab – Stanford, California, USA

Developed the system design to support surgical mannequins, stereoscopic graphical imaging, multiple channel video recording, and haptic surgery trainers after interviewing doctors and surgeons for the overall facility.

Stanford University Radiology Interactive Classroom – Stanford, California, USA

Designed and installed the systems and user interface software for interactive classroom for the Radiology Department containing multiple hi-resolution displays and workgroup stations.

Bur Juman Shopping Center Expansion – Dubai, United Arab Emirates

Managed extra-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.

Singapore Supreme Court Building – Singapore

Designed streaming media system to record court trials from multiple cameras and microphones.

Private residence for Billionaire – Woodside, California, USA

Designed and managed the installation of hybrid fiber-coax satellite master antenna television system for small campus of buildings.

Intel Streaming Media Data Center – Portland, Oregon, USA & Winnersh, UK

Designed the systems and infrastructure to support web-based audio-video encoders in a broadcast studio and web hosting facility.

Pogo.com (Electronic Arts) Online Game Data Center – San Francisco, California, USA

Designed and managed the installation of the local and wide area network infrastructure and the facilities equipment for two data centers and the corporate office building.

Sony Metreon Mall and Entertainment Center – San Francisco, California, USA

As Senior Project Engineer, designed and managed the installation of the audio, video, show control, and ride control systems.

Disneyland Tomorrowland Renovation – Anaheim, California, USA

As part of the Walt Disney Imagineering team, designed and managed the installation of show control, computer systems, audio-video, data networking, and electricity for an interactive pavilion, "Innoventions".

Total Entertainment Network Online Game Data Center – San Francisco, California, USA

Designed and managed the installation of a large computer data center that supports a multi-player game service over the Internet.

Shark Rack Custom Rack Mount Solutions – Sunnyvale, California, USA

As cofounder and inventor, designed and prototyped eight products that provide supplemental cooling and rack mounting for Sun Microsystems computer equipment.

Netscape, Inc. Web Site Testing and Validation – Mountain View, California, USA

As cofounder of company "WebChecked.com", provided web site validation and testing for various browser versions and Windows, Macintosh, Sun Solaris and Silicon Graphics Irix operating systems.

Tabard Theater, San Jose, CA

Volunteer Board Member, 2002-present

- Providing strategic vision and tactical plans for the nonprofit theater group and supporting productions sometimes as technical crew and sometimes as actor

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

Manager, Strategy and Business Development, Location Based Entertainment,

1994-1995

- Developed new business model for Location Based Entertainment systems using interchangeable software on standard systems and presented the plan at an industry-wide summit

Iwerks Entertainment, Burbank, CA

Product Manager for Interactive Attractions and Senior Systems Engineer,

1993-1994

- 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
- Developed business plan for new interactive product line focused at high-tech family entertainment

AT&T Bell Laboratories, Indianapolis, IN

Member of Technical Staff - Team Leader, 1992-1993

- Managed team of engineers and business development personnel working on prototypes for new consumer products and services that utilize voice and speaker recognition, video telephony, touch-screen appliances, interactive television and wireless personal communications

AT&T Bell Laboratories, Naperville, IL

Member of Technical Staff, 1985-1991

- 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
- Managed architecture team that provided a high-speed optical interface (SONET) to the 5ESS-2000 telephone switching system
- Member of core architecture team for the 5ESS-2000 telephone switching system

General Dynamics, Fort Worth, TX

Electrical Engineering Intern, 1983

- Created and taught a course covering use of the Cincinnati Milacron 776 industrial robot

EDUCATION

MSEE, Oklahoma State University, 1986, GPA = 3.8/4.0

Thesis Project #1: Creation of new course, "Practical Engineering Design"

Thesis Project #2: Design of four-legged walking and talking robot named Pegasus

BSEE, Oklahoma State University, 1984, GPA = 3.7/4.0