

## Summary

Design team leader with an extensive background in the design/planning of complex and varied national and international projects – integrating function with a guiding aesthetic vision. The approach of my design efforts has been to investigate the nature of architecture in the way that it shapes human lives.

My experience has been focused on the management of the design process – guiding the strategic planning, masterplanning, conceptual design, schematic design, design development, and construction document phases of significant architectural projects. Additionally, I have served as an Adjunct Professor at the University of Detroit (studio), Lawrence Technological University (theory), and the University of New Mexico (studio).

## Work Experience

### **HIDDEN LINE**

Design Research, Jun 2018 - present

**University of New Mexico**, Albuquerque, New Mexico

Adjunct Professor, Aug 2018 – May 2019

**Dekker/Perich/Sabatini**, Albuquerque, New Mexico

Design Leader, Sep 2017 – July 2018

**MHTN Architects**, Salt Lake City, Utah

Design Leader, Dec 2013 – Sep 2017

**ZNA**, Beijing, China

Design Director, Apr 2012 – December 2013

**Leo A Daly**, Omaha, NE

Design Principal, April 2007 – Jun 2011

**Trinity Design** (now HKS), Northville, MI

Director of Design, May 2001 – Sep 2006

**Minoru Yamasaki Associates**, Rochester, MI

Senior Associate, Sep 1999 – May 2001

**SmithGroup**, Detroit, MI

Senior Designer, Dec 1997 – Sep 1999

**Giffels Associates**, Inc., Detroit, MI

Senior Designer/Senior Strategic Consultant, Apr 1989 – Dec 1997

**Allan Greenberg Architect**, New Haven, CT

Design Intern, Jun 1986 – Dec 1986

**Cesar Pelli and Associates**, New Haven, CT

Design Intern, Sep 1985 – June 1986

**William Kessler**, Detroit, MI

Design Intern, Summer 1985

## Education

**Yale School of Architecture**, 1982-85 – MArch (Design/Theory/Planning)

**University of Michigan**, 1973-1978 – BGS (Pharmacology)

**Registration:** Michigan, Utah

**Software:** Revit, Rhino, AutoCAD, SketchUp, Adobe Creative Cloud, MS Office

### **Project Experience - Corporate/Workplace**

**BlueCross Centre**, Omaha Nebraska – design team leader for the 315,000 sf headquarters building for BlueCross BlueShield of Nebraska in Omaha. Responsible for master planning, architectural design, and interior architectural design.

With a total project cost of \$98 million, the 10-story building accommodates 1,200 employees and was completed in the summer of 2011. In addition to providing workspaces and office areas, the structure houses dining, conferencing, training, and wellness functions. An attached 1,200-stall parking garage was part of the project. The facility design conforms to LEED® Silver specifications - using efficient lighting and mechanical systems and local building materials.

**Salt Lake County District Attorney Offices**, Salt Lake City and West Jordan, Utah – design team leader, responsible for master planning, site planning, architectural design, and interior architectural design. The two facilities (110,000 sf in SLC CBD and 41,000 sf in West Jordan) respond to the need to have centralized offices for the DA – providing improved efficiency of their operations.

Attorney offices are uniform throughout the project, based on a standard module sized at 190 net sf. In addition to providing maximum flexibility for the future, this egalitarian approach reinforces the philosophy of the District Attorney's Office that all staff are collaborative team members working toward a common purpose. The SLC and West Jordan office buildings are equal in their space sizes, level of finish and overall design. This is reflected in the duplication and similarities of space types and sizes in their programs.

**Varian Medical Systems (now Varex Imaging), Site Expansion**, Salt Lake City, Utah – design team leader, responsible for site master plan, schematic design, and the architectural design phases of the project.

The 166,000 sf project for Varian Medical Systems includes 95,000 sf of production space, 55,000 sf office space, and 16,000 sf cafeteria/servers space. Previous expansions of the facility have been developed in an ad hoc fashion – adding grey block enclosures as appendages to the existing facility. In contrast, the Site Expansion was developed to add crucial components to the overall master plan through an integrated approach – producing an efficient organization to the manufacturing process. While the project blends harmoniously with existing facilities, it changes the overall perception of the 600,000 sf Varian Campus, through introducing new architectural elements.

Situated within the context of the Salt Lake Valley – amidst a light manufacturing zone at the western periphery of Salt Lake City, the Site Expansion is arranged as a series of

“clip-ons” that adhere to the existing facility. These new architectural elements reflect the native geography of stratified rock formations, and act as an overlay to the existing campus. They blend in with the existing facility in terms of massing and material expression, but create a revitalized architectural language derived from the introduction of sculptural honed block piers, curtain wall, sun-shading structures, and skylights. The existing Varian architectural character is augmented and modified through these visual elements that are more able to communicate the message of modern technology. By seamlessly integrating into the existing campus, the new facilities create a revitalized image for the entire complex – developing an aesthetic that communicates the core values of the 21st century Varian Medical Systems - efficient innovation.

**Pfizer, Administrative Support Facility**, Ann Arbor, MI – design team leader, responsible for site planning, architectural design, and interior architectural design.

This 60,000 sf facility includes administration offices, a cafeteria, a conference center, and creates a new main entrance to the research complex. Adding central elements to the existing campus, the ASF completes crucial components of the overall master plan for the complex, while maintaining image continuity with existing buildings.

**Kellogg Company, WK Kellogg Institute**, Battle Creek, MI – design team leader, responsible for site planning, architectural design, and interior architectural design. This 80,000 sf research facility, in conjunction with the adjoining pilot plant, enables the development of new products to bring to market.

**General Motors Corporation**, Southeast Michigan – strategic consultant to the Strategic Facilities Planning Division of the GM Worldwide Facilities Group. The work was focused on creating a framework for developing the North American Operations non-manufacturing campuses in southeast Michigan. Specifically, the effort involved developing strategies for the redevelopment of the General Motors Technical Center and the GM Proving Grounds.

**United States Southern Command Headquarters**, Doral, FL – design team leader, responsible for master planning, site planning, architectural design, and interior architectural design.

The United States Southern Command's new headquarters facility would enable an environment of excellence at the forefront of technologies that are intended to focus on a hemisphere of escalating importance. As the Department of Defense's unified Combatant Command for the Southern Hemisphere - covering one sixth of the world's surface, SouthCom will be a headquarters facility befitting of the dignity and importance of its mission. The new headquarters campus design accomplishes the balancing of the seemingly opposing goals, providing security and openness, efficiency and aesthetics, while providing for both cohesiveness and compartmentalization. As a result, the SouthCom design creates a fitting venue from which to carry out the strategic objectives of the United States today and into the future. The project included the Headquarters Building, a Conference Center, a Service Center, AAFES and

Commissary, a Childcare Center, and included lineal reflecting pools and a parade ground.

**Motorola, Automotive Electronics Headquarters**, Farmington Hills, MI – design lead, responsible for planning and architectural design.

This 120,000 sf facility serves as the new headquarters building for the Automotive Electronics Division of Motorola.

**Norwest Bank, Norwest Center**, Minneapolis, MN – designer, involved with schematic design and design development.

A 1.5 million sf 55-story office tower, which is a limestone clad building reminiscent of the RCA Building and Saarinen's Chicago Tribune Tower competition entry.

**Wayne State University**, Detroit, MI – design lead, responsible for master planning, architectural design, and interior architectural design.

This new 100,000 sf administration and faculty building merges functions from two older office buildings for a more efficient utilization of space and resources. Set within the existing campus context, the new administration and faculty building both compliments the existing campus architecture and points to a more contemporary aesthetic – successfully fitting into the existing campus fabric.

**GSA, Major General Emmett J. Bean Center**, Indianapolis, IN – design lead, responsible for master planning, and architectural design.

This 1.5 million sf complete renovation creates an office environment for multiple federal government tenants.

**Detroit Water and Sewerage Department, Administration Building and Water Purification Plant**, Detroit, MI – design team leader, responsible for master planning, architectural design, interior architectural design, and for the creation of the public face/iconography for the DWSD.

The headquarters building consisted of labs and offices – vital elements in the operation of the water purification process serving the metropolitan Detroit area. The plant can produce up to 240 million gallons of water of unquestionable quality per day and is the largest plant in Michigan to use ozone, a disinfection more potent than chlorine.

**Simon and Schuster**, New York, NY – designer, involved with architectural design, design development, and construction documents.

This project was a 17,000 sf renovation of one floor in Rockefeller Center, containing executive offices and support offices. The facility is situated within the Simon and Schuster headquarters at 1230 Avenue of the Americas.

## **Project Experience – Healthcare**

**Saint Joseph Mercy Health System, East/North Towers**, Ann Arbor, MI – lead designer, responsible for master planning, site planning, architectural design, and interior architectural design.

This 598,000 sf (565-bed) project is a replacement facility for an existing 1970's facility. The project consists of three principal phases: 1) an 11-floor critical care tower (363,000 sf), 2) a seven-floor patient care tower and main entrance (204,000 sf), 3) renovation of existing support functions (80,000 sf). While the new patient rooms are double the size of the hospital's existing rooms, the total number of beds at the hospital will remain unchanged.

The facility boasts a "racetrack design" that positions patient rooms on the exterior of each floor with staff and health care resources located in the middle. Hospital officials hope the new facility will give the hospital an edge in attracting patients and retaining staff. Each room gives patients the ability to control lighting settings and communicate wirelessly with their caregivers. Each floor also is flooded with wireless Internet access and each room has a flat-screen TV that function as information hubs – as well as entertainment centers. The rooms were designed with the recognition that families are increasingly playing a key role in the healing process.

**Saint Joseph Mercy Health System, Clinical Services Expansion**, Ann Arbor, MI – design lead, responsible for master planning, architectural design, and interior architectural design.

This project was a 115,000 sf expansion/renovation of outpatient operations, as well as the expansion of OB/GYN, endoscopy, and imaging (65,000 sf of new space and 50,000 sf of renovated space). The new entrance provides an engaging environment that is open 24 hours – providing a welcoming front door to the family birthing center.

**Saint Joseph Mercy Health System, Surgery Expansion and Renovation**, Ann Arbor, MI – design lead, responsible for master planning, architectural design, and interior architectural design.

This 80,000 sf project consisted of 30,000 sf expansion and 50,000 sf of renovation and replacement of 16 operating rooms. The 16 new operating rooms were built while the 16 existing surgeries were in operation – the existing operating rooms were subsequently converted to pre-operative functions.

**Saint Joseph Mercy Macomb, South Tower Addition**, Macomb, MI – design lead, responsible for master planning and architectural design.

This new 56,000 sf facility was built to accommodate recent advances in patient care models – decentralized nurse station and a "racetrack" organization.

**Saint Mary's Southwest**, Grand Rapids, MI – design team leader, responsible for the design and planning of the new outpatient campus and its state of the art medical facility.

The facility was designed to meet the health care needs of the fastest growing segment in the Grand Rapids metropolitan area. The 86,000 sf environmentally friendly campus offers outstanding convenience and superior primary and specialty services reflecting Saint Mary's signature patient-focused model of care. Innovative technologies include electronic record keeping, seamless information flow and highly specialized diagnostic imaging services. For patients needing further care, Saint Mary's Health Care downtown is just 11 miles away and provides dedicated specialty care including neuroscience services, cardiology services, trauma services and The Lacks Cancer Center.

**Hauenstein Center**, Grand Rapids, MI – design team leader, responsible for master planning, architectural design, and interior architectural design.

This project developed a 140,000 sf center for the treatment of neurological disorders, and included both clinical and patient floors, as well as having an expansion of the hospital emergency department on the lower level.

**Lacks Cancer Center**, Grand Rapids, MI – design lead, responsible for architectural design and interior architectural design.

This 84-bed hospital hosts a diagnostic center and medical and radiation oncology clinical functions. It employs healing environment concepts to create an overall design that reduces stress and encourages a sense of wellbeing. The second medical facility in the USA to be LEED Certified.

**Saint Alphonus Regional Medical Center, Brand Imaging Framework Plan**, Boise, ID – Responsible for developing the framework plan.

This study determined the mechanism by which the brand driver (advanced healing) could be utilized to establish and shape the architectural character of current and future facilities within the hospital system in Boise.

**Saint Alphonus Regional Medical Center, Meridian Ambulatory Center**, Meridian, ID – lead designer, responsible for architectural design and interior architectural design.

This project consisted of a 30,000 sf physician's office building and ambulatory surgery designed to better serve the metropolitan Boise area by filling a needed void.

**Via Christi West Hospital**, Wichita, KS – lead designer, responsible for master planning, architectural design, and interior architectural design.

This new freestanding, green field hospital on the west side of Wichita features: 68 beds, including 60 medical-surgical beds and eight obstetrics beds, inpatient and outpatient

services, levels an emergency department, surgery, labor and delivery, digital imaging, pharmacy, lab, and support services.

**Wentworth-Douglass Hospital, New Inpatient Tower**, Dover, NH – design team leader, responsible for site planning, master planning, architectural design, and interior architectural design.

The 165,000 sf five-story inpatient tower includes four medical/surgical bed floors, a floor dedicated to labor and delivery, and one floor dedicated to ancillary services. The overall design went through two developed concepts before it was decided that, in order to accomplish the hospital's goals, a radical reconfiguration of the site was necessary – including moving an immediately adjacent public road.

**PRESNOW 24-7 Urgent & Emergency Care, Presbyterian Healthcare Services**, Albuquerque, NM – design team leader, responsible for site planning, master planning, architectural design, and interior architectural design.

Located at the highly visible corner of Paseo del Norte and San Pedro, PRESNow is the first of four ambulatory care clinics planned by Presbyterian Healthcare Services in a strategic effort to fulfill its commitment to bring healthcare to the city of Albuquerque and surrounding communities. The universal exam rooms reinforce the overall concept of flexibility with consistent and uniform layouts.

**San Juan County Blanding Clinic**, Blanding, UT – design team leader, responsible for site planning, master planning, architectural design, and interior architectural design.

This new 23,000 sf facility draws three separate departments together for improved services in a remote area of Utah: The County Health Department, a counseling center, and an 8 exam room clinic. Three waiting areas in separate, defined spaces with a common entrance led to a "T" shaped layout that anticipates future additions and expansion with relative ease. Each room was fully modeled and vetted to provide an accurate look at the interior layout and design. This process provided an illustrated answer to all questions, leading to informed and clear decisions that preemptively avoided interruptions in construction, and the cost peril that accompanies delay.

## **Project Experience – Manufacturing and Technology**

**Chrysler Corporation, Scientific Test Facility**, Auburn Hills, MI – design team leader, responsible for master planning, site planning, architectural design, and interior architectural design.

This project is a 500,000 sf appendage to the existing Chrysler Technology Center (CTC) in Auburn Hills, Michigan. The purpose of the design was to create a world-class research and technology center that would enable Chrysler to position itself at a technological advantage in the 21st century. The purpose of the facility was to bring to one location many of the research functions that operated in a diversity of locations. By bringing the Scientific Test Facility (STF) to the CTC, all the creative forces for developing new product lines became centralized. Communication between design, engineering,

business and marketing, and manufacturing was the overriding organizing vision for the creation of the CTC.

For the design of the STF, a high degree of knowledge of the process of bringing product into the marketplace was essential. The design needed to be the physical embodiment of the automotive design process, and it also needed to take into account the future needs that would undoubtedly follow. In creating the master plan for the STF, the function of the entire complex needed to be addressed, and the vision of the CTC needed to be preserved.

Largely driven by mechanical needs, large testing functions – noise vibration and harshness, wind tunnel, environmental chambers, and electromagnetic testing, were knitted into the overall organization of the entire complex. Where the Design Center was clad in red granite with curtain wall, the large STF facilities were clad in an insulated metal panel whose color was chosen to visually match other buildings within the facility. Beyond mimicking granite in metal panel, the design sought to make a statement about the very technological processes that were occurring within. The aesthetic vision relied upon a modified streamline style to portray the strength of dynamometers that were whirling just within the enclosing walls.

**Chrysler Corporation, Mack Avenue Engine Plant**, Detroit, MI – design team leader, responsible for master planning and architectural design.

This project included a 50,000 sf office building and the renovation of a 1,000,000 sf out-of-production plant into a state-of-the-art engine production facility to accommodate Chrysler's cross-platform requirements.

**Pfizer, Material Handling Center**, Ann Arbor, MI – design lead, responsible for master planning and architectural design.

This facility consolidated material handling operations on the research campus site, in accordance with the overall master plan.

**Detroit Water and Sewerage Department Water Works II**, Detroit, MI – design team leader, responsible for planning and architectural design.

Water Works Park II represents a landmark endeavor for the City of Detroit's Water and Sewerage Department (DWSD). The project provides drinking water to Metro Detroit residents and serves as a link between the city's past and future.

The \$275 million, 1,010-ton, water treatment plant replaces the original facility, providing the Detroit Water and Sewerage Dept. with potable water at a level that exceeds existing and proposed regulatory standards. The new plant processes over four times more million gallons of water per day than the original plant.

**DWSD**, Detroit, MI – design team leader, responsible for planning and architectural design.

Warehousing facilities at the mouth of the Detroit River consisted of 200,000 sf of new and renovated spaces. As part of a strategic plan, all storage for DWSD was consolidated at a central location.

## **Project Experience – International**

### **China**

**Hainan Stag Lake Hotel and Conference Center**, Haikou, China – design team leader for the development of a 260 room hotel with 60 private villas, and a boutique hotel, with a conference center – 30 km south of Haikou. Responsible for the masterplanning, planning, and architectural design of a five-star hotel complex on Hainan.

This project is centered on the local flower industry, following the Nanyang Flower Town construction model, and brands itself through overseas Chinese culture. It is a multi-functional project that serves as agriculture exhibition center, forum, conference venue, and health resort. The low-carbon environment will be a new development model for green and sustainable development.

**NanShuiBeiDiao**, Jiaozuo City, China – design team leader. The Jiaozuo NanShuiBeiDiao Landscape Corridor is a 2.3 km<sup>2</sup> project, with an urban component that encompasses an 11.4 km<sup>2</sup> planning zone.

This Planning/Landscape project integrates an ecological restoration of a portion of Jiaozuo with the water safety Infrastructure of the city – emphasizing an economic revitalization of the urban surrounding. The need for the project grew out of the introduction of the NanShuiBeiDiao water project that introduced a water channel through the heart of Jiaozuo as part of the three branches (3000 km long in total) national aqueduct that brings water to Beijing.

**Fanchang Spring Valley Hotel**, Wuhu, China – design lead for the development of a 300-room hotel, restaurants, banquet facilities (w/private dining), entertainment complex, club house, and private villas. Responsible for developing the overall masterplan and architectural design.

**Private Resort Hotel**, Hainan, China – design lead for the development of a 280-room hotel with conference facilities, restaurants, and private apartments. Responsible for the masterplanning, planning, and architectural design.

The project utilized a Balinese inspired architectural style that was abstracted in order to create a contemporary overall aesthetic.

**Qingdao Mangrove Tree Resort**, Qingdao, China – design team leader, responsible for developing façade and crown design for three 700-room hotels, in addition to developing the design concept for the ground-level retail portion of the project.

The project is in Qingdao Jiaonan, adjacent to Lingshan Bay. The project includes a landmark hotel, a convention hotel, a family hotel, and a luxury hotel. The convention hotel area includes a convention center, an art museum, theaters, and a 1000 m long commercial street.

**Sanya Haitang Bay**, Sanya, China – design team leader, responsible for design development for the exterior of the 600-room hotel.

The Sanya Haitang Bay is an exceptional Hotel located along China's most beautiful and busiest coastline in Sanya, Hainan. It is the only super-high tower among the typically low-rise resort hotels. In addition to six hundred rooms, there are forty villas, and a large conference center.

## **Korea**

**Parkview**, Bundang, Korea – design team leader, responsible for overseeing site design, master planning, architectural design, and project branding.

Parkview is an 1,800 unit residential project in Bundang, Korea. As one of the largest residential projects in Korea, it began as an invited competition that paired U.S. architectural firms with Korean firms. The project design grew out of an analysis of the large and irregularly shaped site – endeavoring to match the FAR of 5 with the creation of an elegant and humane living environment. Located on a beautiful site with views along the Tancheon River and towards nearby hills and woodlands, this project emphasized environmentally-friendly design in which residential units were oriented to take full advantage of the scenic views, while conforming to Korean cultural prescription for orientation with regard to the movement of the sun. The Bundang Parkview project consists of thirteen 28-32 story residential towers, with a hotel, an office building, retail spaces, a sports center, and a community center. The entire complex is raised upon a plinth that overlays the entire site – providing two levels of parking for the residents.

The design of the overall master plan sought to create a living environment that maintained high density while employing a park-like setting and site amenities to reduce stress and create a sense of calm. The organization of the individual residential towers is not typically Korean - the usual regulating grid organization has been replaced by a more irregular and sinuous organization. The emphasis was to create the most pleasant and unobstructed views for the community residents. It was important to use the particularities of the site in making informed design decisions.

**Fine Venture Tower**, Yeoksam-Dong, Seoul, Korea – designer, involved with interior and exterior architectural design.

The 14,000 m<sup>2</sup> Fine Venture Tower was originally designed as an 11-story tower built in 1995. The challenge of this project was to renovate the building and increase the number of floors to 17, while maintaining the original design intent. The project included a six floor vertical addition and renovation of the existing floors. The exterior was re-

skinned with stainless steel cables from the second floor to the roof that helped create an improved visual presence. In addition, the lobby was redesigned to include retail space. The image of the building was thoughtfully designed to satisfy the client's desire to reposition the building in the marketplace as an urban landmark while maintaining outstanding office functionality.

**Chereville Project Competition**, Il San Korea – design team leader, responsible for overseeing site design, master planning, architectural design, and project branding.

This project competition included 3,500 residential units, located in seven 55-floor apartment buildings with underground parking, a 35-floor officetel, a commercial center, and a public park. The entire complex was to be raised upon a plinth that would overlay the entire site – providing two levels of parking for the residents.

**Acroville II Competition**, Seoul, Korea – design team leader, responsible for overseeing site design, master planning, architectural design, and project branding.

This competition included 1,200 residential units - organized into a tripartite composition. The integration of residential, retail, and office environments (with underground parking and athletic center) formed a total living environment. The design sought to mass residential units in a form that was visually diverse and community oriented.

**Pantheon IV Competition**, Bundang, Korea – design team leader, responsible for overseeing site design, master planning, architectural design, and project branding.

This project consisted of 300 residential units – integrated into 32-floor residential, retail, and office environment with underground parking. Pantheon IV continued the succession of residential complexes along the Tancheon River. The design sought to embody the dignified life-style.

**Koyang Convention Center, Master Plan Competition**, Il San, Korea – design team leader, responsible for overseeing master planning, and architectural design.

The Koyang International Exhibition Center (KIEC) was to serve as a catalyst for positioning Koyang to become a significant force in guiding Korea's entry into the global economy of the 21st century. As Korea passes over the threshold into the new millennium, Koyang represents the Model City for Korea's future. Koyang's strategic importance derives not only from its geographic location, but, also, from the forward thinking vision that has served to shape Koyang's development. While the multi-dimensional network of transportation and a well-considered urban planning initiative have placed Koyang in the position of being a center for global trade and technology, Koyang's future is intimately connected to the KIEC.

Because of the enormous potential that Koyang has for enhancing the future of Korea, the KIEC will become a crucial component to the successful integration of Korea into the world economy. However, the KIEC is not independent of Koyang, and, to that extent, there is a symbiotic relationship between the KIEC and Koyang that needs to be nurtured. In considering the Master Plan for the KIEC, careful attention has been paid to

the manner in which the KIEC will blend into the economic fabric of Koyang. It is for this reason that our planning for the KIEC looks beyond the outlined boundaries of the site—to the longer view. As the KIEC proves to be successful, the city of Koyang will become prosperous, and, as the city of Koyang prospers, the KIEC will thrive.

**Samsung Motors, Technical Center**, Seoul Korea – design team leader, responsible for master planning and architectural design.

This 93,000 m<sup>2</sup> integrated technology facility serves as Samsung's entry into the world of automotive manufacturing, with an eye towards marketing in China.

## **Middle East North Africa**

**University of Garyounis**, Benghazi, Libya – design lead on the project, responsible for directing the master planning, campus planning, and architectural design process for the 330,000 m<sup>2</sup> project.

Founded in 1955, Garyounis University is the largest public institution of higher education in Libya, serving approximately 50,000 students, with internationally accredited bachelors, masters, and doctoral degree programs. The 460-acre campus is located south of Benghazi's central business district, along the city's Mediterranean coastline. Among the university's oldest and largest academic departments are the College of Arts and Education, College of Law, and College of Business Economics. The new facilities will modernize campus facilities and accommodate increased academic and research program demand in engineering, natural sciences, medicine, agriculture, business, and information technology.

The purpose of the project was to elevate the quality of higher education in Libya – to conform to the requisites of being a university in the international arena. The project consisted of 12 specific building types, including facilities for: General Academic Buildings, Faculty/Departmental/Administrative Offices, College of Law, College of Business Economics, College of Engineering, Department of Petroleum Engineering and Mining, College of Arts and Education, College of Natural Sciences, Indoor Sports Complex, Campus Residence Halls and Villages, Campus Recreation and Student Life Facilities, as well as Campus Support Facilities.

**Multi-purpose Hall**, Benghazi, Libya – design team leader, responsible for organizing the master planning, and architectural design process.

Standing prominently on the shore of the Gulf of Sidra, the Benghazi Multi-purpose Hall will be a dynamic form that offers a welcoming presence to both visitors and citizens of Benghazi – making a proud statement. The Hall is to be sited south of the city on a slightly elevated plinth that offers a magnificent view of the Mediterranean. It is a glass vessel of pure geometry that contains a Pearl within it. This Pearl resides on an elevated plinth and it contains a large space within that can accommodate gatherings as large as 2500 people. The Pearl is a lustrous jewel of silvery metal that is opalescent in finish – a gem that has come up from the sea. Surrounding the Pearl, within the glass enclosure, is

an encircling space that serves many functions and purposes – displays, pre and post function activities, tea and juice bars, and informal lounge areas. On the lower level, there are additional meeting rooms and restaurant areas that open up to a landscaped plaza that contains water features and landscape elements. The Benghazi Multi-purpose Hall has been designed to serve as a gathering place that brings together the people of Benghazi, while inviting visitors to meet and celebrate the progressive culture of the city.

**Qatar Military Hospital**, Doha, Qatar – design lead on the project, responsible for master planning, site planning, and architectural design.

The 100,000-M<sup>2</sup> proposed hospital complex would serve as an incentive for the enlistment of Qatari citizens into the military, and it would provide secure medical treatment in the event of Nuclear/Biological/Chemical (NBC) mass casualty events. The QMH would be composed of 300 private inpatient beds (expandable to 600 in an emergency), 200 NBC protected patient beds, an Accident + Emergency (A+E) Trauma Centre of Excellence, an Operating Theatre Suite, a Neuroscience Center, O&G + Maternal Care Cent, Neonatology, Gastroenterology + Endoscope Centre, day surgery, and ambulatory outpatient services and clinics.

The architectural design concept for the Qatar Military Hospital (QMH) is founded on an Integrated Design approach dedicated to the seamless integration of sustainable systems and architectural features. By focusing on technological and environmental issues, an intelligent design solution has been arrived at that serves the mission of the healthcare facility. The architectural language draws from design strategies that integrate a commonsense approach for a campus-like master plan. A single design aesthetic recognizably associated with the armed forces and leading edge healthcare technology is the common thread that weaves throughout the QMH campus fabric, giving it an iconic identity.

**Roadway and Transportation Authority (RTA) Enterprise Command, Control and Crisismanagement Centre (EC3)**, Dubai, UAE – design team leader responsible for master planning and architectural design.

The project involved the creation of a “center-of-excellence” with a potential to generate revenue. Working with Lockheed Martin – one of the premier systems designs and software development organizations in the world, we designed a “center-of-excellence” that would support RTA's goal to become a world class transportation control hub in Dubai.

## **Brazil**

**Peace Tower, Sao Paulo**, Brazil – design lead, responsible for planning and architectural design for the 1.6 million m<sup>2</sup>, 110-floor tower.

This mixed-use project included an atrium (98,000 m<sup>2</sup>), a convention center (85,000 m<sup>2</sup>), retail space (130,000 m<sup>2</sup>), theaters (7,500 m<sup>2</sup>), schools (45,000 m<sup>2</sup>), leasable office space

(170,000 m<sup>2</sup>), specialty office space (125,000 m<sup>2</sup>), two 600-room hotels (240,000 m<sup>2</sup>), apartments (173,000 m<sup>2</sup>), condominiums (120,000 m<sup>2</sup>), a broadcasting center (12,000 m<sup>2</sup>), and a solar garden (6,800 m<sup>2</sup>). The site consisted of a 60 block parcel in central Sao Paulo, consisting of 750,000 m<sup>2</sup> (1.380.000 m<sup>2</sup> including 50ha of park, monorail, viaducts and parking garage for 25,000 vehicles).

**Museum Project, Sao Paulo, Brazil** – design lead, responsible for master planning, architectural design, and interior architectural design.

In conjunction with the Peace Tower, a museum of contemporary art was planned – adjacent to the Tower site. The 30,000 m<sup>2</sup> museum would serve the local community and be the venue for cultural events and international exhibitions.