

## CURRICULUM VITAE

### ALEXANDER ITSEKSON

Alexander (Sasha) Itsekson has over 20 years of structural analysis, structural design and construction administration experience. He has served as a project engineer on numerous commercial, institutional and residential projects. Sasha's experience ranges from design of new hillside single-family houses and multi-family housing projects, to retrofits and renovations of existing mid-rise steel and concrete buildings, to design of industrial structures and tunnels. Throughout his career, he has extensively used structural analysis and design software and is thoroughly familiar with AutoCAD and Revit.

#### *PROFESSIONAL HISTORY*

2001- present	<b>STRUCTURAL ENGINEER, PRINCIPAL</b> Enginious Structures, Oakland, CA
1998 – 2001	<b>STRUCTURAL ENGINEER</b> Ingraham/DeJesse Associates, Inc., Berkeley, CA
1997 - 1998	<b>PROJECT ENGINEER</b> Eichleay Engineers of California, Inc., Concord, CA
1992 - 1997	<b>PROJECT ENGINEER</b> Huntington Design Associates, Inc., Oakland, CA
1989-1991	<b>DESIGN ENGINEER</b> Underground Construction Company, Moscow, Russia

#### *EDUCATION*

1989	<b>MS in Structural Engineering</b> Moscow Civil Engineering Institute, Moscow, Russia
1994	<b>Writing skills for business</b> U.C. Berkeley Extension, Berkeley, California

### *Professional Registrations*

Alexander is a professionally licensed structural engineer in the following states: California, New Mexico, Oregon, Colorado, Utah, Arizona, Montana, Hawaii, Washington and Nevada.

### **ACHIEVEMENTS**

1993           USSR Inventor's Certificate No. 1,838,550  
1996           United States Patent No. 5,480,256  
                  Method and apparatus for the preparation, placement, and compacting  
                  of components of fibrous concrete and mixtures thereof.

### *PROJECT EXPERIENCE*

#### **INDUSTRIAL DESIGN**

- **Rhodia Inc. Chemical Plant**, Martinez, California  
\$2.8 million plant relocation project due to construction of the Benicia bridge. Designed a mat foundation in order to support new pre-fabricated steel building, new single-story office building, modeled and designed 1,000 foot long elevated pipebridge, miscellaneous pipe supports, foundations for oil and gasoline storage tanks and miscellaneous equipment. Prepared preliminary construction cost estimate.
- **Exxon, USA**, Benicia, California  
Modifications to and retrofitting of existing piperack, addition of new access platforms.
- **Chiron Corporation**, Emeryville, California  
Designed new loading docks and upgrading as required for seismic safety in existing 65,000 sq. ft. tilt-up concrete warehouse structure. Managed testing program (including pacometer and half cell potential) and developed repair recommendations for corrosion damaged concrete slabs.

- **Fleischmann's Yeast**, Oakland, California  
Engineered new foundation mat and drilled piers for five cylindrical tanks. Checked and designed upgrades to existing roof structure as required for support of new ammonia receiver tank.
  
- **Morton Salt Company**, Newark, California  
As a part of a corporate safety program, evaluated and designed fall protection systems at existing vacuum bins, bulk loading facilities, hummers, ejector platforms, and pan house covers. Rehabilitation measures for damaged concrete elements in wet salt bins were engineered, extending the effective life of the existing structure. Rehabilitation measures were engineered for existing concrete columns in boiler and dryer buildings.
  
- **Sunshine Biscuit**, Oakland, California  
Surveyed all existing unreinforced masonry walls and prepared an Engineering Analysis Report describing deficiencies and proposed upgrades, as required by the City of Oakland unreinforced masonry ordinance.
  
- **Longview Fibre**, Oakland, California  
Storage facility addition. Steel framed structure with cross braced frames and with corrugated steel roof diaphragm.
  
- **Golden Gate Bridge District Bus Facility**, San Rafael, California  
Expansion of the existing facility was achieved by this single story structure over a concrete slab on grade.
  
- **Damatt Engineering**, Oakland, California  
Engineered and prepared drawings for switchgear facilities for Gilroy Foods, Granite Rock Co., and Unocal Oil Co. The work included building enclosures for switchgear, containment structures for transformers, equipment supports and foundations.
  
- **Rogun Hydro Power Electric Station**, Tadjikistan, CIS (former USSR)  
Three hundred meters high earthfill dam, with numerous tunnels and subterranean hydro power station building. Performed structural analysis of the

tunnels, water-pipes, and hydro power station building using proprietary software based on the finite element method. Inspected work-in-progress to assure conformance to construction documentation.

## COMMERCIAL, HOUSING AND INSTITUTIONAL PROJECTS

- **Palo Alto Post Office**, Palo Alto, California  
Architect: Woodford Sloan Architects  
Seismic upgrade of the historical precast concrete and timber building originally designed by Isodore Thompson. Retrofitted existing foundation by adding new grade beams and caissons, added new shear walls, strengthened connections between precast elements.
- **Golden Gate Park Pavillion**, San Francisco, California  
Architect: Van Der Ryn Architects  
New community and environmental education center. Special features include spherical sedum roof over metal deck, steel framing, and a semicircular exterior concrete wall.
- **St. John the Baptist Episcopal Church**, Lodi, California  
Architect: WMB Architects  
Cast-in-place concrete, CMU, steel and wood framed sanctuary building. Estimated cost of construction is \$4,500,000.
- **San Joaquin County Mental Health Services Expansion**, Stockton, CA  
Architect: Sweeny Rose Architects  
Three new three-story steel frame braced buildings. Estimated construction cost is \$19,000,000.
- **Brannan Square – 250 Brannan Street**, San Francisco, California  
Client: Mariposa Management Company  
Seismic upgrade and conversion of four story unreinforced masonry building originally used for sausage factory to offices.
- **2307 Clement Avenue**, Alameda, California  
Architect: Italo CarPELLi  
Addition of second floor offices to the existing masonry and timber framed building. Existing masonry shear walls, steel framing and foundations were evaluated to be compliant with 1994 Uniform Building Code.
- **Tides Restaurant**, Bodega Bay, California.  
Architect: Warren Fuller

Timber framed restaurant and fish processing timber buildings supported on pre-stressed concrete piles with concrete slab diaphragm. Architectural grade glulam posts and beams with conventional roof joists and TJI's.

- **Pacific Bell Building**, Burlingame, California  
Architect: Garcia/Wagner & Associates  
Seismic upgrading schemes were developed for four-story buildings of both brick and concrete walled construction with steel frames. Seismic bracing of critical mechanical and electrical equipment was engineered.
- **The Key Building, 1100 Broadway**, Oakland, California  
Developed preliminary design for seismic retrofitting of the eight-story masonry infill steel framed historical building. The proposed scheme included additional lateral bracing, rear masonry wall shotcreting, and the strengthening of existing foundations. Prepared construction cost estimate.
- **Highland Country Club**, Oakland, California  
Architect: The Dahlin Group  
Existing fire damaged foundations were tested and evaluated and an 11,000 sq. ft. timber framed replacement structure was engineered.

#### FABRIC TENSIONED STRUCTURES

- **Hunan amphitheater**, Hunan Province, China  
Analyzed the fabric structure and designed steel masts, cables, and fabric.  
Supervised the installation of fabric panels. The 30,000 sq. ft. roof is one of the first major tension structures erected in China.
- **Carnival Court**, Las Vegas, Nevada  
Developed design concepts prepared by the architect and performed all cable, steel, and fabric design. The 90 ft. diameter canopy, composed of 84 festive fabric "ribbons", will cover an open courtyard at Harrah's Casino.
- **Chicago Beach Tourist Hotel**, Dubai, United Arab Emirates  
Architect: W.S. Atkins  
Performed computerized analysis and fabric patterning, prepared calculations and structural steel design for numerous shade canopies using British Building Code.
- **National Semiconductor Entry Canopies**, Santa Clara, California  
Architect: Bellagio Associates  
Mast jacking systems and other exposed structural details on these five canopies are engineered to provide a final product that is completely "clean" in appearance.

## SERVICES FOR THE SEMICONDUCTOR INDUSTRY

- Structural design of more than twenty tool stands for Advanced Micro Devices, Integrated Device Technologies and LSI Logic Corporation. The tools include steppers, ion implanters, scanning electronic microscopes, wafer inspection stands etc. Provided the coordination of tool manufacturer requirements and site constraints. Vibration analysis was performed on most of the stands.

## SPECIALTY PRODUCTS

### • **Aluminum Cladding Components**

Design of skylights, storefronts and curtainwall systems - both supporting structures and supporting interfaces for manufacturers including Oldcastle Glass Engineered Products, U.S. Aluminum, and Arcadia Inc. Assisted in the development of standard submittal packages and procedures for use in all submittals to California's rigorous Division of State Architect (DSA) and Office of Statewide Health Planning and Development (OSHPD). Approximately 200 projects have been completed to date.

### **Vietnam Development Corporation, San Carlos, California**

Developed technology, designed elements and connections, and implemented a testing program for single family houses to be build in Vietnam and other countries with tropical climate utilizing precast panels made of extruded foam and GFRC facing.

## FIBER REINFORCED CONCRETE TECHNOLOGY

- Worked with the team of engineers that developed, tested and implemented a new technology for placing, mixing, and compacting of fiber reinforced concrete mixtures. This patented process provides a number of technical breakthroughs that translate to significantly reduced costs of construction as well as creating safer and more durable structural elements.

## RESIDENTIAL CONSTRUCTION

- Design of hundreds of new homes and additions, as well as seismic upgrades.