

Hilary Hubbard, Principal
Hubbard Godfrey Architects, Inc.
3522 Geary Blvd. Suite 3
San Francisco, CA 94118
415.379.1700 tel
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Hilary@HubbardGodfrey.com

Professional Experience

Hubbard Godfrey Architects, Inc.

San Francisco

Established full service architectural and design firm specializing in hospitality, institutional, retail, tenant improvement, master planning and residential projects

| | |
|---|--------------------------------|
| San Francisco Giants, Gotham Clubhouse Bar & Dining | ATT Park, San Francisco |
| San Francisco Giants, Gotham Club Game Room | ATT Park, San Francisco |
| San Francisco Giants, Luxury Suites Improvements | ATT Park, San Francisco |
| San Francisco Giants, Social Media @ Café | ATT Park, San Francisco |
| San Francisco Giants, Promenade Level Improvements | ATT Park, San Francisco |
| San Francisco Giants, Virgin America Flight Deck | ATT Park, San Francisco |
| San Francisco Giants, Virgin America Loft Suite | ATT Park, San Francisco |
| San Francisco Giants, Audi Legends Club Suite | ATT Park, San Francisco |
| San Francisco Giants, Champions Suite | ATT Park, San Francisco |
| San Francisco Giants, Ghirardelli Square South | ATT Park, San Francisco |
| San Francisco Giants, Executive Building Improvements | ATT Park, San Francisco |
| San Francisco Giants, Gallery & Club Level Improvements | ATT Park, San Francisco |
| San Francisco Giants, Corona & Service Level Improvements | ATT Park, San Francisco |
| San Francisco Giants, Press Dining Improvements | ATT Park, San Francisco |
| San Francisco Giants, Lexus Dugout Suite | ATT Park, San Francisco |
| San Francisco Giants, Dugout Store | ATT Park, San Francisco |
| San Francisco Giants, Dugout Store | ATT Park, San Francisco |
| San Francisco Giants, Dugout Store | ATT Park, San Francisco |
| Exploratorium, TACTILE Dome Exhibit | Walnut Creek, San Francisco |
| SkinSpirit Skin Care Clinic & Spa | Pier 15, San Francisco |
| SkinSpirit Skin Care Clinic & Spa | Bellevue, Washington |
| SkinSpirit Skin Care Clinic & Spa | University Village, Washington |
| SkinSpirit Skin Care Clinic & Spa | Redmond, Washington |
| SkinSpirit Skin Care Clinic & Spa | Mill Valley, California |
| SkinSpirit Skin Care Clinic & Spa | Walnut Creek, California |
| SkinSpirit Skin Care Clinic & Spa | Palo Alto, California |
| Halo – Blow Dry Bar, Hair Salon | Burlingame, California |
| Halo – Blow Dry Bar, Hair Salon | Menlo Park, California |
| Yves Delorme | Burlingame, California |
| Schurter Industries | Santa Rosa, California |
| Comcast Office Improvement | San Francisco |
| Spruce Street Commercial renovation | San Francisco |
| RCI Warehouse Office Conversion | Oakland |
| International Data Corporation | San Mateo |
| International Data Group | San Francisco & San Mateo |
| Allyn Avenue Residence (remodel, addition, landscape) | St. Helena |
| Preston Residence (remodel & addition) | St. Helena |
| Orser Residence (remodel & addition) | San Francisco |
| Jones Residence (remodel) | San Francisco |
| Severynse Residence (remodel) | San Francisco |
| Torres Residence (remodel, addition, landscape) | Orinda |
| Heublein Takacs Residence (new construction, landscape) | Woodside |
| Fortuna Avenue Residence (remodel) | San Francisco |
| Radford Residence (remodel & addition) | Portola Valley |
| Berkowitz Residence (remodel & addition) | Portola Valley |
| Moreland Residence (addition & master plan) | St. Helena |
| Peck Residence (new construction) | Santa Cruz |
| Almgren Residence (remodel) | Portola Valley |
| Preston Residence (landscape & master plan) | St. Helena |
| Fine-Levinson Residence (remodel) | Palo Alto |
| Ranch Road Residence (remodel) | Woodside |

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Professional Experience

Herman & Coliver Architecture

San Francisco

Project Manager, Architect & Designer

Congregation Kol Shofar Temple – Expansion & Remodel
Temple B'nai Israel – Expansion & Remodel
Oak Center Adult Day Health Facility
Redwood Day School – Expansion & Remodel
Center for Elders Independence
Pacific Grove Senior Housing
UAHC Camp Swig

Tiburon
Sacramento
Oakland
Oakland
Oakland
Pacific Grove
Los Gatos

Baum Thornley Architects

San Francisco

Project Leader & Designer

Presidio Hill School
Missouri Street Housing
Howard Street Remodel & Seismic upgrade
Day Casebeer Madrid & Batchelder Law offices

San Francisco
San Francisco
San Francisco
Cupertino

Kapell and Kostow Architects

New York

Project Architect and Designer

Beach Plum Park Lot 2 Residence
Beach Plum Park Lot 7 Residence
Hamamoto Residence
MTV Networks – VH1 Production Facility
MTV Networks – VH1 Production Offices
MTV Networks – Broadcast Studio B
AngelBeat.com Offices
Mad River Post Production Facility

Montauk
Montauk
New York
New York
New York
New York
New York
New York

Davis Brody Bond Architects

New York

Designer & Job Captain

New York Public Library – New South Court Building
New York Public Library – Center for Scholars & Writers
Vanderbilt University – New Medical Research Master Plan
Yeshiva University, Stern College
The New Constitutional Court Building Competition
City of Yonkers, Waterfront Development Competition

New York
New York
Nashville
New York
South Africa
Yonkers

Backen Arrigoni Ross Architects

San Francisco

Designer

Osprey Pointe Residential Development – Master Plan
Osprey Pointe Residences at Crosswater
Sunriver Resort Lodge

Oregon
Oregon
Oregon

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Professional Experience

Nardi Associates Architects & Designers

Florence, Italy

Designer

*Dolce & Gabbana Retail Showroom
Universal Gymnasium Cafeteria & Bar
Di Russo Medical Offices
Piazza Matteotti Park & Community Center Competition*

*Milan
Prato
Bari
Matera*

Education

*Master of Architecture, Columbia University
Post Baccalaureate in Fine Arts, Studio Art Centers International
Bachelor of Arts in Architecture, University of California*

*New York
Florence, Italy
Berkeley*

Professional Associations

*Licensed Architect, State of California
American Institute of Architects*

Paul Switenki, PE



Profession

Mechanical Engineer

Current Position

Associate

Joined Arup

1996

Qualification

PE, State of California,
Mechanical, 2005

MS, Civil Engineering, Building
Energy Systems, University of
Colorado

BAE (HVAC emphasis),
Pennsylvania State University

Professional Associations

Member, ASHRAE (American
Society of Heating, Refrigeration
and Air Conditioning Engineers)

Member, ASHE (American
Society of Healthcare Engineers)

Paul Switenki is a multidisciplinary project manager and Mechanical Engineer with Arup. He has a strong background in building physics and project delivery and has applied his strengths in low-energy HVAC system design and multi-discipline coordination to Healthcare and Arts & Culture projects. He also has experience with all types of commercial, educational and institutional facilities.

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Healthcare:

University of California, San Francisco Mission Bay Hospital, Outpatient Building and Energy Center, San Francisco, CA

Paul was the Lead Project Mechanical Engineer for the UCSF Mission Bay Hospital (Phase I) site. The project consists of a 645,000ft², 289-bed acute care hospital, a 193,000ft² outpatient building and 36,000ft² Energy Center that delivers chilled water, hot water and steam to the hospital and outpatient building. UCSF is hoping for LEED certification and is participating in PG&E's Savings By Design program. The buildings are conditioned by 100% outdoor air units with energy recovery loops. The Hospital is one of the few OSHPD-reviewed hospitals to be looking at variable air volume systems instead of the typical, energy-consuming constant volume system. It is also one of the first projects to undergo concurrent (phased) OSHPD review.

Kaiser Permanente, Template Hospital & Central Utility Plant, Multiple Locations, CA

Lead Mechanical Engineer for a 400,000ft², 175 bed acute care hospital on Kaiser Permanente's Vacaville Campus. The team was also tasked with determining how the existing Central Utility Plant (CUP) could be upgraded or expanded to include the new hospital and future campus medical facilities. Efforts at Vacaville were rewarded when Kaiser decided to use the Hospital as a template for two other sites in Northern California and one in Southern California. As Project Mechanical Engineer, Paul led the original Hospital and Central Utility Plant HVAC studies and coordination efforts. Throughout design and construction administration he has been responsible for orchestrating the efforts of over a dozen engineers from three Arup offices. His close working relationship with the Chong/Smith team has been instrumental in securing Arup's continuing role with Kaiser and the Joint Venture.

Kaiser Antioch Hospital, Antioch, CA

Lead Mechanical Engineer. The Antioch Hospital is considered the true “template” acute care hospital. 350,000ft², 175 patient beds.

Kaiser Modesto Hospital, Modesto, CA

Lead Mechanical Engineer. Includes an additional Patient Tower floor and an expanded Nursery and Labor/Delivery Department. 400,000ft², 225 patient beds.

Kaiser Sand Canyon Hospital, Irvine, CA

Mechanical Engineer. The Sand Canyon hospital includes two additional Patient Tower floors and a full-service kitchen replaces the Template’s food preparation area. To help meet additional site-specific cost constraints, Paul met with the owner and mechanical subcontractor to review the subcontractor’s suggested specification-related value engineering measures. The owner was able to reduce first costs and clearly understand what elements of the design were being compromised. 450,000ft², 275 patient beds.

Kaiser Vacaville Hospital, Vacaville, CA

Lead Mechanical Engineer. The Vacaville layout mirrors that of the Antioch Hospital. 350,000ft², 175 patient beds

Kaiser Antioch Central Utility Plant (2007), Antioch, CA

Contributing engineer. The Antioch Central Utility Plant (CUP) was also part of the original Template Hospital scope of work. It serves the Hospital, the adjacent Hospital Service Wing (HSW) building and has been sized for a future Hospital expansion.

Kaiser Modesto Central Utility Plant (2007), Modesto, CA

Contributing engineer. The Modesto CUP serves the Hospital, the adjacent Hospital Service Wing (HSW) building. It is configured for future expansion to serve a future Hospital expansion and two future Medical Office Buildings.

Kaiser Permanente, Central Utility Plant Study, Vacaville, CA

Contributing engineer. Arup and the Joint Venture looked into several combinations of re-use and new-build, giving particular consideration for the existing equipment and changes in Seismic Code since the original CUP’s construction.

Yale University Medical Center, New Haven, CT

Mechanical Peer Review providing internal review for Arup’s Boston office, reviewing DD and CD documents, establishing global healthcare business contacts in the process.

Enumclaw Medical Center, Enumclaw, WA

Mechanical Engineer providing schematic design advice to Arup’s Seattle office leadership, helping increase the office’s growing healthcare knowledge.

Central Middlesex Hospital, London, UK

Mechanical Engineer. Paul spent eight weeks with Hayden Young, a mechanical subcontractor working on the construction of a new hospital in London. Paul spent several weeks assisting pipe-fitters with placement of copper and steel pipes. He also spent several weeks working for the subcontractor's quantity surveyor, comparing quotes from HVAC equipment suppliers.

Arts and Culture:

Lucas Contemporary Art Museum, San Francisco, CA

Project Manager for a proposed \$300M, 95,000 ft² museum in the historical Presidio. MEP, Fire/Life Safety, Lighting, Transportation and Civil.

California Academy of Sciences, San Francisco, CA

Paul served as the Mechanical Project Engineer during the construction phase of this high profile, multi-use building in Golden Gate Park. The Academy incorporates exhibit space, natural ventilation, aquariums, planetarium, rainforest dome, laboratories and offices and has achieved LEED Platinum Certification.

Green Music Center, California State University at Sonoma Rohnert Park, CA

Paul was the Project Mechanical Engineer for the proposed 112,000ft² music center. Originally scheduled for completion in 2002, the center was to feature a 1400-seat concert hall, a 300-seat organ recital hall, a 2-story, glazed lobby and a similar 2-story, glazed conference area. The center also contains support spaces including practice rooms, concessions and offices for Sonoma State University's music department. On-site chilled and heating hot water serves custom AHUs, fan coils and VAV boxes throughout the center. The concert hall floor and the performance platform are raised and served by displacement ventilation from below. Facades were developed to include high-performance glazing and external shading devices.

Mondavi Center for the Arts Performance Hall, University of California at Davis, Davis, CA

Paul was Project Engineer for the 97,000ft², multi-purpose performing arts center. The 1800 seat performance hall includes variable acoustic mechanisms and is served by an underfloor displacement ventilation system. The 350-seat studio theater is cooled via a VAV air handler and heated with an in-floor hydronic (radiant) heating loop. The main lobby is an expansive glass box cooled with a variety of custom displacement diffusers at each of four floor levels. Poured concrete "trenches" provide an air path that serves the lowest level. CO2 sensors limit unnecessary heating and cooling of outdoor air. The smoke purge system was designed to comply with California Fire Code. The three levels that comprise the Back-of-House are served by a VAV system, but acoustically sensitive spaces within are provided with chilled beams and ceiling induction diffusers.

San Mateo Public Library, San Mateo, CA

Paul assisted the Project Mechanical Engineer with the design and took over as Project Engineer in Construction Administration of this three-story, 80,000ft², LEED Gold Certified library. Paul was involved with design of the raised floor displacement ventilation system and the atrium smoke control system.

Minnesota Science Museum, St. Paul, MN

While interning for Ellerbe Becket in Minneapolis, Paul researched temperature and humidity effects on artwork, metals, woods, animal skins and other displayed materials, assisted in the “thermal” zoning of a 300,000ft² science museum. Each zone was defined according to the level of environmental control required, and organized so adjacent zones’ requirements were similar. This “buffering” hierarchy helped determine the overall form of the museum and visitor circulation routes. He also determined the optimal methods of central air humidification and dehumidification thorough life cycle costing.

Commercial Property:

Confidential Office Building, CA

Project manager for this 250,000 ft² office building at a biotechnology company’s campus. Arup provided mechanical, electrical and plumbing hand-over documents, and the lighting and fire/life safety consulting for this “Highly Collaborative Project Delivery”, pseudo-IPD effort where the design team assisted the design-build team during Contract Document and Construction Administration phase.

Confidential Wellness Center, CA

Project manager for this 75,000 ft² wellness center at a biotechnology company’s campus. Arup has provided mechanical, electrical and plumbing and lighting consulting to date.

Sun Microsystems Campus Phase 2, Newark, CA

Paul was the Project Engineer responsible for preparation of conceptual HVAC design presentations to the client.

40 Grosvenor Place, London, UK

Paul assisted the Project Mechanical Engineer with all major HVAC design tasks including calculation of thermal loads, pressure drops, sound levels, energy consumption, CO₂ production and life cycle costs; design of raised floors and chilled ceilings; preparation of HVAC conceptual display boards, drawings and specifications. He attended monthly coordination, design review and partnering meetings; used in-house analysis tools to develop the glazing specification and the extent of shading devices; researched equipment possibilities for chilled ceilings, perimeter heaters, FCU boxes, boilers, chillers and cooling towers; performed thermal analyses while assisting Arup R&D in the development of software that handles re-transmitted radiation through atria and the thermal

effects of chilled ceilings.

2 The Square - Stockley Park, London, UK

Performed BREEAM (UK equivalent to LEED) audit of 3-floor office building near London. Worked with Architect and Building Simulation Official to create thermal model of low-energy, mixed mode office air conditioning system. Assessed other mechanical and non-mechanical criteria, compiled results into BREEAM application, and submitted forms to certification board.

Tower Place, London, UK

Researched “green” building design and assisted graphics department in the preparation of mechanical and architectural conceptual presentation boards and booklets.

Moscow Bank, Moscow, Russia

During internships with Ellerbe Becket, Paul assisted the Project Mechanical Engineer with layout and sizing of HVAC systems, and document preparation and issue.

Education:

La Ki Shing Center for Learning and Knowledge, Stanford University, Palo Alto, CA

Design of mechanical systems for new 120,000ft² facility housing knowledge management, classroom, seminar rooms, conference center, Deans office, Office of Student Affairs and student life programs. Generated schematic documents and provided third party overview during design and build (D&B) stage.

University of Nottingham New Campus, Nottingham, UK

This low energy campus, consisting of five main buildings, won an EU Thermie grant for low energy building system provision. Low energy HVAC features include low pressure air handling units and distribution and return systems, underfloor (displacement) air conditioning, heat recovery, rooftop photovoltaics and radiant underfloor heating systems. Assisted in the design of the customized air handling units and helped quantify the low energy solutions by comparing life cycle costs with those of typical campus building construction. Also reviewed and updated drawings, single line diagrams and schedules, assisted with architectural coordination issues, reviewed bid packages, and attended site construction progress meetings.

Carlson School of Management, University of Minnesota, Minneapolis, MN

While with Ellerbe Becket, Paul calculated heating, ventilation and cooling loads and for this classroom/office building. Also routed duct and pipework and sized major HVAC equipment.

Harvard University, Cambridge, MA

Paul assisted Arup’s Facades Group by performing thermal analyses

of a double-skinned façade.

Sport:

Saint Mary's College – McKeon Pavilion Renovation, Orinda, CA

Project manager for expansion of existing gymnasium for NCAA Division I athletic program. Added seating, entry lobby, training room and athletic department offices. Upgrade of media truck facilities and added seating. Arup has provided preliminary design for structural and MEP systems, and also fire/life safety consulting.

High Performance Athletics Center, Berkeley, CA

Peer review and attended value engineering services for the University of California-Berkeley's \$90 million, 145,000ft² High Performance Athletics Center.

Football Stadium Expansion, University of Notre Dame, South Bend, IN

Ellerbe-Becket designed a façade to enclose the existing one, thereby adding a new concourse and 35,000 seats to Notre Dame's famous stadium. Paul performed thermal studies to size HVAC equipment and to determine the most cost-efficient glass for the enlarged press box. Paul was also responsible for coordinating mechanical, electrical and plumbing routes in these new areas.

Marine Midland Arena, Buffalo, NY

Assisted the Mechanical Team with the design and layout of the supply and waste piping systems for the 18,000-seat arena for the National Hockey League's Buffalo Sabres. Primarily responsible for the development of plumbing drawings, including plans and isometrics.

Government:

Public Safety Building, San Francisco, CA

Project manager for \$164M, 200,000 ft² new building that includes police headquarters, district police and fire stations, arson task force facilities, parking garage, reuse and incorporation of an existing historic fire station. Managed integrated design, structural peer review, mechanical, electrical, public health engineering, daylighting consulting, facades design, ICT peer review and building code analysis.

Seattle Justice Center, Seattle, WA

The southwest side of the 183,000ft² building incorporates a 9-story ventilated façade as an architectural feature. Paul performed cavity and perimeter zone comfort and thermal analyses to help determine the glazing types, shading devices and cavity damper control sequence of operations.

Hotels and Leisure:

Ian Schrager Hotels, Sanderson Building, London, UK

Ian Schrager Hotels bought an historic London textile showroom and proposed to convert it into a 5-star hotel. Performed significant portions of the initial feasibility studies including existing conditions reports, HVAC plant and equipment sizing and locating, and service routing. Assisted coordination of room-by-room service routing to develop prototypical room types.

Residential:

155 Macquarie, Sydney, Australia

Paul performed thermal analyses of various façade types to assist the architect with specifying glazing, blinds and external shading. The building is a residential high-rise owned by the Australian government. It has a sheer, glazed façade.

Retail:

Prada, 185 Post Street, San Francisco, CA

Prada was to be a 10-story retail/office building in downtown San Francisco. Designed by Brand & Allen Architects, the building's exterior walls were to be perforated, stainless steel panels with glazed perforations and several types of transparent, insulated backings. Sixth floor was to be an outdoor "patio" with a glass floor acting as the top layer of a luminous ceiling to the fifth floor. Paul performed initial ASHRAE Standard 90.1 calculations and advised the architect on various envelope construction options. The resulting information was to be used to assure California Title 24 energy compliance.

Research:

Project Manager for assessment of the potential for existing California commercial building stock to convert to natural ventilation or mixed-mode ventilation. Also investigated fire/smoke control and acoustic barriers to the implementation of natural ventilation.

EDUCATION

Bachelor of Science in Civil Engineering - May 2004
Masters of Science in Structural Engineering - December 2005
University Of California at Berkeley

CAPABILITIES

Design, Analysis & Detailing: steel, concrete, masonry and timber framed structures
Structural drawings: plan, elevations & details using AutoCAD 2015
Self management: budget, project coordination, proposal/fee negotiation, client relations

PROFESSIONAL ACTIVITIES: Member of ASCE, AISC, & AOPA

SELECTED PROJECT EXPERIENCE

All-Mart: Oakland, CA

Addressing an open store front issue, a special reinforced masonry shear wall was proposed to provide transverse lateral support. The clear and concise design objective consisting of a masonry shear wall, grade beam and piers, effectively supported construction documents which kept the project on schedule and under budget.

BART Seismic Rehabilitation (R-Line)

Part of a multi-million dollar effort by BART to seismically upgrade and rehabilitate portions of the super structure and supporting structures, compliance with BART's stringent seismic design criteria was vital throughout all phases of design. Client response time and product presentation improved as I efficiently relayed as well as administered information between sub consultants and in office management.

Responsibilities:

- ✓ Non linear analysis of piers and bents supporting the aerial portions of the track from the MacArthur Station to the Richmond Station
- ✓ Foundation design of first 16 piers and bents of MLK, Jr. Skyway
- ✓ Buttress wall and outrigger bent designs

Berryessa BART Station: Berryessa, CA

One of the proposed stations intended to be added on to the BART extension into the South Bay, this mid-level design phase produced cleaner calculations and tighter drawings all the while reducing concrete and steel quantities from previous designs.

Responsibilities:

- ✓ Steel concentric brace frame design
- ✓ Foundation design
- ✓ Steel and concrete quantities

Forest Home Farms (Historic Building): San Ramon, CA

A structure dating back to the 1930's, the structural integrity of the house and attached roof top water tank were of utmost importance. Through careful cost analysis of construction materials, the client received welcomed design and cost savings and for the office, potential future work for delivering under a tight budget.

Responsibilities:

- ✓ Seismic retrofit of two story 420ft.² house with empty 9ft. dia. by 9ft. tall water tank attached at roof
- ✓ Structure and foundation design of 32 ft. tall steel wind mill for gravity and seismic loading

Monterey Street Overhead: Fresno, CA

Preformed for the city of Fresno, the structure consisted of multiple 2 and 3 column bents extending as high as 33ft. in some locations. Given its complex geometry as well as its lack of service for many years since its construction in the 40's, the city needed expert input whether to demolish the structure, re-open it or leave it closed until future determination.

Responsibilities:

- ✓ Prepared complete computer model of East and West spans, a total of 2,000ft. of bridge deck separated on one end and gradually running side-by-side for the last 500ft. at the opposite end
- ✓ Analyzed results and deemed the structure unfit for re-opening saving the city of Fresno countless hours of planning and construction sequencing

Campbell Union High School District: San Jose, CA

Consisting of five different campuses in total, one design was chosen to be utilized at the five different sites with the exception of the entrance canopies which were to provide a sense of individualism for each campus. Predominantly glass, strict deflection criteria were to be observed at each entrance canopy. The consolidated design kept the project on budget and created clear communication with the architect.

Responsibilities:

- ✓ Assisted the project manager with the seismic design of the 6,500ft.² auditorium housed by reinforced masonry walls and topped with a corrugated metal roof
- ✓ Completed the roughly 1,000ft.² entrance canopy designs braced by ordinary steel moment frames
- ✓ Provided on site technical support

Contra Costa County Public Works Department Building Expansion: Martinez, CA

At 13,000ft.², this 1 story steel office building with a lateral system consisting of SUREBOARD panels, came in with a project budget of \$4 million. Constant communication with the architect and contractor reclaimed a budget that was destined for disaster while clever coordination pushed the project through to completion.

Responsibilities:

- ✓ Designed the building's gravity system
- ✓ Performed site visits with the project manager and helped with steel shop drawings

Jamestown Condominiums: San Francisco, CA

With 11 wood-framed buildings, 3 stories in height, this project consisted of 200 condominiums in total. With multiple teams of builders on site, a concerted effort was required to keep this project on course. Multiple site visits, revitalized second looks at previous structural layouts, and patience proved to be worthy attributes for this construction conundrum.

Berry Residence: Palo Alto, CA

A single story residential remodel consisting of an addition of a second story, this type of design was to become the "bread and butter" of the firm. One of many, this particular project had a construction budget of \$1 million.

Responsibilities:

- ✓ Designed all the gravity framing required for the new second level and designed the new lateral system for the entire structure.
- ✓ Produced plans and details for the construction documents
- ✓ Responded to plan review comments, RFI's, checked shop drawings, performed site visits and wrote the necessary site visit reports

SOFTWARE

MS Excel, MS Word, RISA-3D, PCACOL, LPILE, XTRACT, SAP2000 Nonlinear, WFRAME, ENERCALC, MATHCAD, AUTOCAD and VECTORWORKS.



Noelle Yuen brings more than 25 years of diverse technical and project management experience to Maffei Structural Engineering. Originally a bridge engineer with Caltrans, since 1991 she has focused her career on building structures, including institutional and civic buildings, transit stations, hospitals, and seismic retrofit and renovation projects. Noelle has experience with concrete, steel, masonry, and timber structures.

Noelle has developed special expertise in seismic design, peer review, and plan check. She has directed structural reviews of healthcare facilities throughout California (for the state agency OSHPD) and, since 2002, she has conducted seismic peer reviews of more than 20 tall building structures in San Francisco, Sacramento, San Diego, San Jose, Seattle, and Bellevue. Noelle is equally fluent evaluating both seismic detailing and nonlinear response-history analyses assumptions and results for such structures.

Noelle brings an efficient and collaborative work approach to the projects she directs.

Education

Master of Science, Structural Engineering, UC Berkeley, 1991

Bachelor of Science, Civil Engineering, UC Berkeley, 1987

Registration

Registered Civil Engineer, California

Registered Structural Engineer, California

Professional Affiliations

Member of the Structural Engineers Association of Northern California (SEAONC)

Selected Publications

Maffei, Joe, and Noelle Yuen, 2007, "Seismic Performance and Design Requirements for High-Rise Concrete Buildings," *Structure Magazine*, April

Selected experience – High-rise Peer Review

11th Avenue & Broadway residential high-rise, seismic peer review, San Diego
 710 Broadway residential high-rise, plan review, San Diego, CA
 1430 2nd Avenue office and residential high-rise, seismic peer review, Seattle, WA
 1521 Second Avenue residential high-rise, Seattle, WA
 1613 2nd Ave, seismic peer review, Seattle, WA
 1823 Minor Ave residential high-rise, Seattle, WA
 2017 7th Street office/residential high-rise, Seattle, WA
 2031 3rd Avenue high-rise, seismic peer review, Seattle, WA
 2105 5th Avenue residential high-rise, review of fiber reinforced coupling beam alternate
 350 Mission Street office high-rise, seismic peer review, San Francisco, CA
 800 Stewart Street residential high-rise, Seattle, WA
 802 Pine Street residential high-rise, Seattle, WA
 815 Pine Street residential high-rise, Seattle, WA
 Acorn Block 21, office high-rise, seismic peer review, Seattle, WA
 Bellevue Center residential high-rise, seismic peer review, Bellevue, WA
 Elev 8 residential high-rises, seismic peer review, Bellevue, WA
 Fana Four residential high-rise, Bellevue, WA
 Lincoln Square II office and hotel/residential, seismic peer review, Bellevue, WA
 Olive 8 hotel/residential high-rise, Seattle, WA
 Rufus 2.0 Block 14 office high-rise, seismic peer review, Seattle, WA
 Rufus 2.0 Block 19 office high-rise, seismic peer review, Seattle, WA
 San Jose SC towers, residential high-rises, seismic peer review, San Jose, CA
 Streetlights residential high-rise, San Diego, CA
 The Bravern high-rise complex, Bellevue, WA
 The Mark (5th & Columbia) office and hotel high-rise Office, Seattle, WA
 Towers on Capitol Mall, hotel/residential Sacramento, CA
 Transbay Block 6 residential high-rise, seismic peer review, San Francisco, CA
 Transbay Block 9 high-rise, seismic peer review, San Francisco, CA

- Selected experience – peer review (mid-rise and low-rise)**
- 1321 Mission Street, The Panoramic Micro-Apartments, San Francisco, CA
 - 270 Brannan Street, San Francisco, CA
 - Live Oak School retrofit, seismic peer review, San Francisco, CA
 - Moscone Center Expansion, peer review of headed reinforcement, San Francisco
 - Multnomah County Courthouse damped high-rise structure, seismic peer review, Portland,
 - UCSF Clinical Sciences Building, seismic peer review
 - War Memorial Veterans Building Seismic Retrofit, San Francisco, CA
- Selected experience – OSHPD plan review (hospitals)**
- Los Angeles & University of Southern California Medical Center Replacement Project, Los Angeles, CA
 - Stanford Hospital and Clinics, Palo Alto, CA
 - Washington Hospital Replacement Building, Fremont, CA
 - Whittier Presbyterian Intercommunity Hospital, Whittier, CA
- Selected experience – Seismic evaluations and structural design**
- ATC 66, 2014 Napa earthquake reconnaissance
 - BART East Dublin/Pleasanton Station, Dublin, CA
 - Berkeley Public Library Renovations & Additions, Berkeley, CA
 - California Department of Transportation, Division of Structures, Sacramento, CA - design and construction of highway bridges, CA
 - Children's Hospital Oakland Expansion, Oakland, CA
 - Evaluation of roof collapse, San Jose, CA
 - First Unitarian Church Renovation and Addition, Oakland, CA
 - Folsom State Prison Seismic Strengthening, Folsom, CA
 - Kaiser Geary Campus Renovation & Addition, San Francisco, CA
 - Kaiser Vallejo 2008 Tower, Vallejo, CA
 - Monterey Bay Aquarium Research Institute, Moss Beach, CA
 - Navy Post Graduation School Herrmann Hall Seismic Study, Monterey, CA
 - Samsung petrochemical plant, seismic evaluation and schematic retrofit design of concrete wall and frame buildings Trinidad
 - San Quentin Prison Seismic Strengthening East, West and South Cell Blocks, San Quentin, CA
 - Stanford University Language Corner Rehabilitation, Stanford, CA
 - Structural design of fixed and seismically isolated museum exhibits, Exploratorium, San Francisco, CA
 - Structural evaluation and design of solar truss structures, Georgia Tech Research Institute
 - UC Berkeley Bowles Hall seismic assessment, remodeling, and retrofit
 - UC Berkeley Residence Halls Units 1,2, & 3 peer review of seismic retrofit Berkeley, CA
 - UC San Francisco Mt. Zion Research Building, San Francisco, CA
 - VA/USAF Hospital, Travis Air Force Base, Fairfield, CA
- Employment at consulting firms**
- January 2013-Present Maffei Structural Engineering, Senior Engineer
 - 1991-2013 Rutherford + Chekene, San Francisco (2003-2013 Senior Technical Consultant, 1991-2003 Senior Associate/Structural Engineer)
 - 1987-1990 California Department of Transportation, Division of Structures, Civil Engineer
 - 1986 San Francisco Public Utilities Commission, Civil Engineering Intern



Ken Lindberg

Vice President, Estimator | 37 Years Experience | 31 Years with Power

Ken Provides pre-construction design consulting, budgeting, and estimating on complex marine and civil projects. As a long-time leader in Heavy Civil and Marine construction and co-founder of Power Engineering, Ken is known for taking on complex projects with an innate ability to breakdown a project into achievable construction solutions. His solutions focus on safety, quality, and client satisfaction.

Education:

BS Civil Engineering - California Polytechnic University, San Luis Obispo, CA, 1979

Professional:

Civil Engineer, California License# C 040884

Career Experience:

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| Power Engineering Construction Company – Vice President | 2012-Present |
| Power Engineering Construction Company – President | 1996-2012 |
| Power Engineering Construction Company – VP, General Manager | 1990-1996 |
| Power Engineering Construction Company – VP, Construction Operations | 1986-1990 |
| Power-Anderson Construction, Inc. – Project Engineer, Project Manager | 1980-1986 |

Relevant Project Experience:

SVCW Plant Effluent Outfall Repair Exploratorium Pier 15 & 17 Repairs - 2015 to 2016

Ken is the project lead for replacing an existing 66" RCP Plant Outfall at the SVCW Wastewater Treatment Plant in Redwood City with 63" HDPE. The Outfall discharges into San Francisco Bay where the work must consider and adapt to the tide fluctuations. The project includes removing the lining and recoating the existing 66" steel pipe to remain in service. This phase is 80% complete.

Exploratorium Pier 15 & 17 Repairs – 2010 to 2012

Power Engineering performed as the marine Prime Contractor for this \$51M project. The project required a complete reconstruction of Pier 15 and 17 as part of a conversion into the Exploratorium Museum. Work activities included a seismic upgrade of Pier 15, complete reconstruction of both pier aprons, driving of steel piling ranging from 20" to 72" diameter, removal of a large portion of the concrete infill deck between the piers, extensive below deck and below water concrete repair, heavy timber framing, and new cast-in-place deck sections along the entrance corridors to the new museum.

PST Effluent Outfall Channel Coating Repairs - 2009

Replaced an existing effluent channel coating system on both concrete and steel surfaces within the channel. Effluent flow was bypassed to allow for repair of the concrete substrate, blasting of steel elements, and application of a new effluent channel coating systems.

Coating replacement required the design and installation of temporary bulkheads in the operating channel and installation/operation of a pump diversion system. The bulkheads and dewatering system allowed us to drain the PST Effluent Channel. Bulkhead and bypass installation and removal were completed by Power Engineering's ADCI dive teams. Once the channel was dewatered, PEC crews repaired damaged channel concrete and the concrete and steel coatings within the Effluent Channel were replaced.