

Firm Profile

Daedalus is a Bay Area structural engineering firm with over 35 years of experience designing new and renovating older building resources. We provide a full range of structural engineering services, and our staff has diverse experience in project types, complexity, and size, including seismic evaluation and retrofit design, custom residential, civic, k-12 and higher education, commercial projects, as well as building and earth retention shoring.

We see the structure as an extension of the architecture and not merely a skeleton hidden beneath the finished product. Whether completely covered by architectural finishes or an integral part of the architecture, we believe the structure provides an opportunity to expand and help shape the finished architecture and building envelope. Working closely with each client to provide the best possible service, we look for opportunities to explore integrated architectural and structural solutions that vary from the most cost effective conventional systems to the unexpected. We provide input and offer alternatives to help Owners, Architects, and Builders to develop and shape the architectural design, select materials, advance and refine detailing, speed construction, and reign in unnecessary costs. Our services do not end with the "primary structural" systems, but also extend to design of temporary systems required for construction means and methods as well as all aesthetically sensitive architectural and site features important to the architectural and programming vision.

We thrive to ensure that costs are properly distributed to provide structurally efficient systems and not out-of-balance structural building costs due to neglectful or excessively conservative engineering and detailing. We work closely with each Architect, their other Consultants, the Geotechnical Engineer, the Contractor, and the Owner to ensure that structural solutions meld seamlessly with all building systems and finishes and that important design features, finishes, and other project goals are not lost in cost engineering due to unnecessarily expensive foundation or superstructure systems that are ultimately hidden from view.

Daedalus and all staff, including work with previous employers, have never been involved in litigation and have never made an insurance claim.

Services

New Building Design
Seismic Evaluation & Strengthening
Earth Retention System Shoring Design
Building Shoring Design
Construction Means and Methods Engineering
Art installation Structural Design
Building Distress Evaluation & Mitigation
Historic Preservation and Renovation Engineering
Sustainable Structural Design
Structural Peer Review
Prelease/Prepurchase Structural Evaluation
Expert Witness and Litigation Support
Non-Structural Anchorage and Bracing

Key Personnel

Doug Robertson

Firm Founder and Principal
39 years experience
Structural Engineer, California (S 3424)
Civil Engineer, California (C O41076)
Structural Engineer, Hawaii (16007)
Civil Engineer, Colorado (PE 25543)

Mae Kawamoto

Principal
25 years experience
Civil Engineer, California (C 60706)
Structural Engineer, California (S 5658)
Structural Engineer, Utah (SE 12404234-2203)

Marisa Nolasco

Associate Engineer
12 years experience
Civil Engineer, California (C 83965)

Josh Mendoza

Associate Engineer
9 years experience
Civil Engineer, California (C 88233)

Jessica Chen

Associate Engineer
5 years experience
Civil Engineer, California (C 91602)

Douglas Robertson, P.E., S.E.
Principal

Doug has managed and directed the structural design of many diverse projects during his career spanning 39 years. Placing great attention on important project details, while executing broader project goals pertaining to construction budget, schedule, and constructability, Doug has led many technologically innovative and diverse projects including new building design, seismic evaluation and strengthening, historic renovation and preservation, sustainable design, and implementation of energy dissipation technologies. Through careful study and collaboration Doug has consistently helped owners and architects develop innovative design solutions, while helping reduce construction costs.

Registrations

Structural Engineer, California (S 3424)
Civil Engineer, California (C O41076)
Structural Engineer, Hawaii (16007)
Civil Engineer, Colorado (PE 25543)

Education

B.S. Civil Engineering, University of Colorado, Boulder



Project Experience

Admin, Synagogue, K-12 Day School, San Mateo, CA
Admin, Gym and Theater, Gideon Hausner K-12 Day School, Palo Alto, CA
TimberQuest Classroom PC, CA (mass timber kit-of-parts)
McEvoy & Dupont, housing, San Jose, CA (two 12 story mass timber towers)
Bayside Elementary School, Classroom Wing, Marin City, CA
MLK Middle School, District Admin, MRP and Classroom; Marin City, CA
Carlmont High School, Classroom Wing, Redwood City, CA
De La Salle High School, Student Center and Faculty Lounge and Gymnasium
Mills College, Olin Library
Sequoia High School, Carrington Hall Theater, Redwood City
USB, Hearst Memorial Mining Building Materials Science Lab (Renovation and Base Isolation), Berkeley, CA
UCSB, Physical Science Building (2 Buildings), Santa Barbara, CA
UCSB, Student Rec and Aquatics Center, Santa Barbara, CA
Performing Arts Center, Woodside High School, Woodside, CA
Gymnasium and Aquatic Center, Woodside High School, Woodside, CA
Gymnasium, Menlo Atherton High School, Menlo Park, CA
Mills College, Olin Library, Oakland, CA
Health Sciences Library, UC San Francisco
Veterans Administration Medical Center, Memphis, TN
Marian Medical Center, Santa Maria, CA
Orange Park Community Center, South San Francisco, CA

Morgan Hill Aquatics Center, Morgan Hill, CA
Fremont Civic Center, Fremont, CA
Boeddeker Park and Clubhouse, San Francisco, CA
Hayes Valley Playground and Clubhouse, San Francisco, CA
Hercules Public Library, Hercules, CA
Mountain View Civic Center, Mountain View, CA
Quintessa Winery Tasting Pavilions, St. Helena, CA
Voyageur du Temps, Los Altos, CA
Jennifer Russel Community Center, Lafayette, CA
Plantation House, North Kona, Hawaii
Portola Preserve, Portola Valley, CA
100+ custom single family residential projects (New and renovations)
\$50+ million Mercer Island, WA estate (40,000 sf)
\$20+ million Woodside, CA estate (14,000 sf)
\$20+ million Portola Valley, CA estate (14,000 sf)

Mae R. Kawamoto, P.E., S.E.
Principal

Mae has designed and managed various structures over the past 25 years including custom residences, public and private school buildings, community centers, public art and commercial buildings. Her experience ranges from new, ground-up construction to remodels and seismic upgrades and evaluations of existing structures. She has a special interest in sustainable design and construction and follows LEED certification updates and sustainable practices. Mae has a good rapport with design teams and contractors to ensure that solutions are efficient and sensible.

Registrations

Civil Engineer, California (C 60706)
Structural Engineer, California (S 5658)
Structural Engineer, Utah (SE 12404234-2203)

Education

B.S. Architectural Engineering, California Polytechnic State University,
San Luis Obispo
B.Arch. Architecture, California Polytechnic State University, San Luis
Obispo

Project Experience

TimberQuest Classroom PC, CA
Sacred Heart Schools, Kinder Classroom, Atherton, CA
(Mass Timber)
Ohana Mental Health Facility, Monterey, CA (Mass Timber)
Office Adaptive Reuse and Retrofit, San Carlos, CA
Concessions and Restroom Building, Mather Sports Center, Cordova,
CA
Los Altos Community Center, Los Altos, CA
Portola Preserve Residence, Portola Valley, CA
Dominican Sisters Chapel & Care Center Remodel and Retrofit,
Fremont, CA
Central Plant Adaptive Reuse and Retrofit, CSUMB, Monterey, CA
Creekside Plaza Mixed Use, Berkeley, CA
Athletic Field Improvements, Foothill College, Los Altos, CA
Humanities Building, Bellarmine College Preparatory, San Jose, CA
Gardner Community Center, San Jose, CA
Mountain View Teen Center Adaptive Reuse and Remodel, Mountain
View, CA
Theater and Gymnasium, Ann Sobrato High School, Morgan Hill, CA
Theater Renovation and Amphitheater, Live Oak High School, Morgan
Hill, CA
Camden Community Center, LEED certified MPR and Gym, San Jose,
CA
Mountain View Daycare Center, Mountain View, CA
SJSU Cesar Chavez Arch, Public Art Design, San Jose, CA
City of San Jose Parking Garage Retrofit, San Jose, CA
Mulberry Residence, Atherton, CA
Stern Guest House, Atherton, CA
Willow Glen Residence Remodel, basement addition, San Jose, CA
Cull Canyon ICF Residence, Hayward, CA
Hyde Street Mixed Use, San Francisco, CA



Marisa K. Nolasco, P.E.

Associate Engineer

Marisa has been an avid adopter of BIM, specializing in Revit use and developing customized modeling standards and detail and drawing management for in-house use for the past 10 years. With Daedalus, Marisa has designed various structures over the past 5 years including custom residences, multi-unit structures, commercial buildings, and small passion projects requiring high levels of detailing. She has a special interest in refined detailing solutions that are also efficient and pragmatic, working closely with all members of design teams to achieve a sensible and elegant solution. During project lifespans, Marisa maintains a proactive approach to project management, coordination, and communication.

Registrations

Civil Engineer, California (C 83965)

Education

B.S. Architectural Engineering, California Polytechnic State University, San Luis Obispo



Project Experience

Blue Oaks Residence, Portola Valley, CA
Atherton Backyard Pavilions, Atherton, CA.
Burlingame Residential Temporary Shoring, Burlingame, CA.
Burlingame Residence, CA.
Palo Alto Residence, CA.
Los Altos Hills Backyard Cabana, Los Altos Hills, CA.
Woodside Foundation and Retaining Wall Retrofit
St. Francis High School Gymnasiums (Structural/BIM), Mountain View, CA.
Holiday Inn Express, Redwood City, CA.
Admin, Synagogue, K-12 Day School, San Mateo, CA
Safeway/Vons As-Built Modeling (BIM), Throughout CA.
Fremont High School Cafeteria (BIM), Fremont, CA.
Encasa Multi-Unit Luxury Residences and Parking Structures (BIM), Sunnyvale, CA.
Moffett Gateway Garage and Amenities (BIM), Sunnyvale, CA.
The Harker School Performing Arts Theater and Gymnasium (BIM), San Jose, CA
Parker Place Multi-Unit Housing and P/T Garage (BIM), Berkeley
Delmas Diridon Station New Office and Residential Towers (Structural/BIM), San Jose, CA.
Single Family Track Homes for DR Horton, Lennar, Toll Brothers (BIM), Greater TX., OK., LA. Areas

Josh Mendoza, P.E.
Associate Engineer

Josh has designed and coordinated various types of structures over the past 9 years including custom residences, commercial & multiuse buildings. His experience ranges from new, ground-up construction to remodels & tenant improvements. Josh has experience in various materials including wood, steel, concrete, masonry, rammed earth & mass timber. He takes pride in staying up to date on all projects and keeping communication lines open from the development stage to the final construction.

Registrations

Civil Engineer, California (C 88233)

Education

B.S. Civil Engineering, California Polytechnic State University,
San Luis Obispo

Project Experience

480 Lytton Office Building, Palo Alto, CA
Hope Street Mixed Use, Mountain View, CA
Orchard City Egress Stair Retrofit, Campbell, CA
Apple Interior remodel, Sunnyvale, CA
El Camino Real Mixed Use, Sunnyvale, CA
El Camino Real Mixed Use, Santa Clara, CA
XL Construction Office T.I., Milpitas, CA
Geary Courtyard T.I., San Francisco, CA
Butcher's Corner Temporary Shoring, Sunnyvale, CA
Brisa Del Mar New Single-Family Residence w/ Rammed Earth Walls,
Santa Cruz, CA
Santella Court New Single-Family Residence, Los Gatos, CA
Paseo Escondido New Single-Family Residence, Carmel Valley, CA
Greenoaks New Single-Family Residence with Pool House &
Detached Garage, Atherton, CA
Greenoaks New Single-Family Residence with Guest House,
Detached Garage & Trellis, Atherton, CA
Manzanita Residential Remodel & New ADU w/ Basement,
Woodside, CA
Prospect Street Residential Remodel & New Trellis, Woodside, CA
Anderson Street Residential Remodel, San Francisco, CA
Edge Road Residential Remodel, Atherton, CA
Sioux Way New Single-Family Residence with Pool House &
Detached Garage, Portola Valley, CA
Madrono Ave. New Single-Family Residence, Palo Alto, CA
Ramona Street Basement Retrofit, Palo Alto, CA
Quail View New Single-Family Residence, Cilo, CA
Floribunda ADU, Hillsborough, CA
Sonoma Terrace Residential Remodel, Stanford, CA
Wine Cellar Retrofit, Los Altos Hills, CA
West Road Residential Remodel, Los Gatos, CA
View Street New Single-Family Residence, Palo Alto, CA



Jessica J. Chen, P.E.

Associate Engineer

Jessica has designed various structures over the past 5 years with Daedalus. Projects include custom residences, community centers, hotels, commercial buildings, and multi-unit residential. Her experience ranges from new, ground-up construction to remodels. With a background in both architecture and engineering, Jessica provides artistic sensibility and pragmatic insight to a project. Jessica respects the ideas and opinions of all team members and aims to find solutions that have a positive impact.

Registrations

Civil Engineer, California (C 91602)

Education

B.S. Civil Engineering, University of California, Berkeley

M.S. Civil Engineering (SEMM), University of California, Berkeley

M.Arch, University of California, Berkeley

Project Experience

McEvoy and Dupont Towers, San Jose, CA (Mass Timber)

TimberQuest Classroom, CA (Mass Timber)

Elm Park Remodel, Monte Sereno, CA

Asbill Reuss Remodel, Oakland, CA

Los Altos Community Center, Los Altos, CA

Quarry Mountain Residence, Park City, UT

Santa Lucia ADU, Carmel-by-the-Sea, CA

Aurora del Mar Residence, Carmel-by-the-Sea, CA

Fal Residence Remodel, Hillsborough, CA

Brisa Del Mar Residence, Santa Cruz, CA

Pivot House, Portola Valley, CA

Westridge Residence, Portola Valley, CA

Cork Oak Residence Remodel, Palo Alto, CA

Wernikoff Residence ADU, Portola Valley, CA

Admin, Synagogue, K-12 Day School, San Mateo, CA

Mid Pen Open Space Office Building Remodel, Los Altos, CA

Martis Camp Residence, Placer County, CA

Treas-Tan Residence Remodel, San Mateo, CA

Holiday Inn Express, Redwood City, CA

Hyatt Place, San Carlos, CA

Blue Oaks Residence, Portola Valley, CA

Portola Preserve Residence, Portola Valley, CA





Chabad of North Peninsula San Mateo, CA

This new multi-story center for the Jewish community also serves as an educational facility with pre-K classrooms and playgrounds on the first floor, situated over a sub-grade parking garage. A vaulted lobby leads occupants upstairs to the social hall, two-story vaulted spiritual hall, and common areas, including an outdoor garden assembly space. The podium and above-grade framing systems are comprised of steel utilizing buckling-restrained-braced frames which allow for the building to cantilever on one end while also having a playful non-orthogonal envelope.

(construction in-progress)

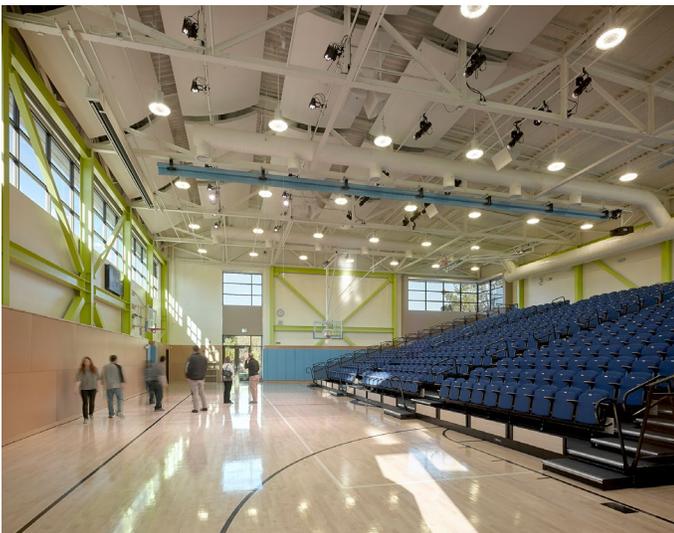
Architect | Studio Bondy Architecture



Sacred Heart Schools, Atherton Atherton, CA

TimberQuest™ made history as the first Cross Laminated Timber prefabricated classroom solution to receive pre-checked approval status from the Division of State Architecture, allowing for over-the-counter permitting. The solution offers schools multiple options from three to nine class rooms per building and optional modules for offices, science, kinder, and bathrooms. Sacred Heart Prep School in Atherton was the first to take advantage of this new building approach. In just under 11 weeks a beautiful four classroom TimberQuest™ building was completed, from breaking ground to ribbon cutting, right in time for the start of the new school year.

Architect | Aedis Architects



Gideon Hausner Palo Alto, CA

The Gideon Hausner Jewish Day School Center for Arts and Athletics is the final piece of the school's master plan. Housing a multi-purpose gym/theater, music classroom, art classroom, and religious studies classroom, the additional space expands the school's program and adds a dynamic, new building to the former tech office park.

Architect | Studio Bondy Architecture



Sobrato Center

San Jose, CA

Sobrato Center for Humanities and the Arts is a 49,700 square foot theater and classroom building added to the Bellarmine campus. It includes a full-fly theater, seating up to 440 patrons with thrust stage/orchestra lift, trap, and vomitoriums leading to band and individual music practice rooms below grade. Students enthusiastically learn about the full theater experience from performance to the behind-the-scenes jobs including the audio/visual booth, set shop, and black box theater. The lobby connects the cantilevered theater lobby with the 3-story classroom wing housing a ceramics studio with kiln and raku pit, digital technology lab and green rooms in addition to instructional classrooms.

Architect | The Steinberg Group



De La Salle High School

Concord, CA

This student center and faculty lounge is a one-story 20,000 square foot steel frame structure, which utilizes significant expressed structural elements to enhance the curvilinear architectural forms required to achieve the overall architectural vision. Perhaps the most notable elements of this architectural expression occur at the main hall with the 95 foot span lenticular steel roof trusses providing a sense of motion from interior to exterior space and the tall chevron braced frames juxtaposed against the brick building envelope.

Architect | Ratcliff Architects



Martin Luther King Jr. Academy

Marin City, CA

This middle school and District Administration complex includes three seismically separated two story buildings. All three buildings use structural steel framing with special concentric braced frame lateral force resisting systems. The class room and administration buildings include a two story atrium space with a connecting corridor to the multipurpose building. The atrium and corridor provide a thoroughfare for student and faculty circulation between floors, within and between buildings. A glazed curtain wall opens the three buildings to the outdoors and the central courtyard. The three buildings are linked through several corridors and bridges that required specially detailed seismic separations without the aid of double columns.

Architect | VBN Architects



Bayside Elementary

Sausalito, CA

This project includes two separated wings in an “L” shape visually joined together by a structurally independent tall entrance canopy. The larger wing includes kindergarten and first grade classrooms and toilet rooms and the second houses several flexible resource spaces and additional toilet rooms. The building is timber framed and includes exposed heavy timber framing along arcade roofs that extend the full length and connect the two wings. The roof lines vary and are juxtaposed with adjacent spaces within each wing and the roof of both wings incorporate a continuous clerestory. The entrance canopy between the two wings also uses exposed heavy timber roof framing supported on cantilevered pipe columns.

Architect | VBN Architects



Woodside Gymnasium

Woodside, CA

This new athletic facility was constructed using steel framing including a roof supported by lenticular steel trusses and a braced frame lateral system. The principal features include a new 1,700-seat gymnasium with support facilities to accommodate basketball, volleyball, and badminton. Additionally, the project included major renovations to the existing boy’s and girl’s locker/shower facilities, and team rooms.

Architect | DES Architects



Carrington Hall

Redwood City, CA

Carrington Hall is a 1920’s, 900-seat, nationally listed historic theater on the Sequoia High School campus. This renovation and expansion project included complete replacement of all major building systems, historically sensitive restoration and a seismic upgrade to 75% of code level forces as permitted for historic resources by the State Historic Building Code. The seismic upgrade included strengthening of the proscenium walls, added frames at the front entrance wall, strengthening and anchoring of the roof diaphragm to exterior walls, building up of existing wall pilasters at the exterior and at vomitories to resist out-of-plane seismic forces and many other seismic related repairs.

Architect | DES Architects



Menlo Atherton High School Atherton, CA

This new gymnasium will serve as an auxiliary athletic facility for the Menlo Atherton campus. The project contains a basketball gymnasium, wrestling gymnasium, weight room, and an aerobics facility with the basketball gymnasium rising well above the height of the other surrounding spaces. The building is a steel framed structure with a concentric braced frame lateral system and is supported on a continuous spread footings foundation.

Architect | DES Architects



Woodside Performing Arts Center Woodside, CA

The Performing Arts Center is the gem of Woodside High School, where students are able to experience professional theater through modern technology and architecture. The Performing Arts Center includes a 500-seat auditorium with a professional size stage and fly tower; multipurpose room; green room; drama classroom; dressing rooms; lobby; restrooms; and box office. Flexibility was a requirement. The stage was designed with an adjustable orchestra lift, which can be raised and lowered in seconds, even while holding an entire orchestra.

Architect | DES Architects



South Hall

University of California, Berkeley

Built in 1873, the National Register of Historic Places listed South Hall as the oldest building on all the University of California campuses. Unreinforced brick wall center-core reinforcing was used for this four-story unreinforced brick building to assure that the beautiful interior wainscoting and wood molding and exterior brick facade would not be visually and materially impaired.

Architect | Esherick Homsey Dodge and Davis



Recreation and Aquatics Center

University of California, Santa Barbara

This Recreation and Aquatics complex is an assemblage of integrated outdoor and indoor spaces including two major linking courtyards, garden court, 2 swimming pools, and playing fields outdoors and indoors an entrance lobby, corridor/gallery, two multi-court gymnasiums; six racquetball courts, two squash courts, two weight training spaces, locker rooms, 2-story athletic department offices and support spaces. Buildings utilize steel concentric braced frame lateral systems integrated with timber framed roof systems that expose T&G wood deck ceilings and glue laminated beams.

Architect | Sasaki Associates, Inc.



Filippi Hall

Saint Mary's College

This two-story, steel framed structure is prominently located along the front of the campus and was built to house the Kalmanovitz School of Education. The building was designed to maintain the architectural aesthetic of the campus while utilizing modern framing systems to give the structure a high level of seismic performance.

Architect | Ratcliff Architects



Physical Sciences Building

University of California, Santa Barbara

This project added two new Physical Science buildings to the UCSB science quad. The north building is a four story, reinforced concrete, laboratory building which houses the Physical Sciences Department and includes laboratories, classrooms, and faculty and administration offices.

Architect | Ratcliff Architects



Hearst Memorial Mining Building

University of California, Berkeley

This Beaux-Arts, 130,000 sf, four story, building was originally designed by campus Architect John Galen Howard. This challenging project had numerous facets within the three core project elements of base isolation, historic preservation, and laboratory modernization. This was the first and only on the campus to boast base isolation technology, which was pioneered at U.C. Berkeley in the late 60's and early 70's. The completed building now supports state-of-the-art laboratories, faculty and graduate student offices, teaching labs, administration offices, and classrooms.

Architect | NBBJ Architects



Inner Quad Buildings and Arcade

Stanford University

Originally designed as tall, single-story classroom buildings and interconnecting open arcades, these National Historic Landmark buildings have, over the years, been converted into two-story classroom and office buildings to meet the demands of the growing campus. The project entailed strengthening the existing unreinforced sandstone walls and wood framed roof and floor systems to current seismic standards, ensuring these buildings and arcades can continue to remain functional spaces for the university. All the required work was detailed and constructed with special care so that students and visitors will see no evidence of these modern seismic improvements.

Architect | David Bartlett Associates



Health Science Library

University of California, San Francisco

Provided civil and structural design services for this state of the art library. Located at the base of Mt. Sutro, the library houses one of the largest health science collections in the country and also includes a climate-controlled rare book collection and state-of-the-art computer facilities. The library steps down the hillside in a series of five terraced stories, providing a graded and unassuming transition between the neighborhood environment and the massive structures of the UCSF campus. The steel framed structure includes a concentric braced frame lateral system.

Architect | Esherick Homsey Dodge and Davis



F. W. Olin Library

Mills College

This two-story library at Mills College contains compact shelving areas, group study and work station areas, special collections, reading rooms and archive room. The steel frame structure includes a ductile moment resisting steel frame lateral system supported by a ductile concrete grade beam and drilled pier foundation system.

Architect | Esherick Homsey Dodge and Davis



Hyatt Place San Carlos, CA

The hotel building structure is conventionally timber framed above the second level podium. Both the street level and second level concrete podium slabs are post-tensioned. The lateral system consists of two systems: concrete shear walls up to the second level podium and then wood shear walls to the roof.

(construction in-progress)

Architect | SKL Associates, Inc.



Timber Towers San Jose, CA

This California project, currently in for permitting, includes two 12-story Cross Laminated Timber towers over a single level concrete podium plaza and garage level. As a timber building with a height that exceeds current code, the project was accepted by the building official with early adoption of the 2021 International Building Code provisions for taller mass timber building construction. When completed, this project is projected to be the tallest timber building in the United States. This project is a with teaming partner Fast + Epp headquartered in of Vancouver, BC.

Architect | Sera Architects



Holiday Inn Redwood City, CA

Four-story light frame timber over post-tensioned concrete podium hotel on the northern peninsula.

Architect | SKL Associates, Inc.



Gene Friend Recreation Center San Francisco, CA

This new community center will include gymnasiums, multi-purpose rooms, exercise space, a roof top terrace, and outdoor space. The structure will include an enhanced seismic performance system to serve as an Emergency Staging Site. Located on a site with high liquefaction and shaking potential, the foundation will be a mat slab over very deep auger-cast piers, and the superstructure will include buckling-restrained braced frames. Daedalus developed a proprietary wood waffle roof framing system for the large gymnasium space to create a free-form system with a unique ceiling profile.

Architect | WRNS Studio



Los Altos Community Center Los Altos, CA

This new community building features high ceiling multipurpose rooms, meetings rooms, catering kitchen, and dedicated spaces for seniors, teens and childcare. The timber framing aesthetic creates inviting gathering spaces with glulam rafters and trusses and cedar trellises exposed throughout the project. Cantilevered steel columns are designed to bridge the many stepped roofs and to meet the more stringent seismic demands. The project is designed to a LEED Gold standard and will serve as an emergency shelter.

Architect | Noll&Tam Architects



Boeddeker Park and Clubhouse San Francisco, CA

The seemingly unobscured building transparency belies an unconventional lateral force resisting system. Only two concrete-encased steel columns provide both gravity and lateral support at the recreation wing allowing full height glazing along the entire length of three recreation wing exterior elevations. Similarly, the openness at the north end of the building is achieved through the use of an exposed board formed concrete wall along the eastern edge of the site, which is unexpectedly designed to resist seismic forces in all directions of loading.

Architect | WRNS Studio



Mid-Peninsula Open Space Office Los Altos, CA

Midpeninsula Regional Open Space District looks to create an office environment that strengthens their public identity and reflect their core mission of open space conservation. The project includes the complete interior remodel of, and partial addition to, an existing early 1980s office building.

Architect | Noll&Tam Architects



Jennifer Russell Community Center Lafayette, CA

The “Manzanita Room” is largely a pre-fabricated steel building, which replaces an old school building at the end of its useful life. In addition to the curtain wall and curtain wall support system, two custom architecturally exposed steel canopies were developed and detailed internally.

Architect | PROTO Inc.



Hayes Valley Park and Clubhouse San Francisco, CA

This ¼ acre inner-city playground and recreation center is located in an economically diverse San Francisco neighborhood in need of more space for youth programs and community activities. The living roof is supported by timber framing. Built-up steel columns fabricated from tubes and plates were proposed to seamlessly tie into the thin plate steel window mullions design aesthetic. Existing site retaining walls were utilized as part of the building system to save space and reduce costs.

Architect | WRNS Studio



Presidio Visitor Center

San Francisco, CA

The New William Penn Mott, Jr. Presidio Visitor Center invites park visitors to this former military post turned 1,500 acre national park. The adaptive reuse of the original jail house, built in 1900, now includes 7,500 square feet of exhibits space that chronicles the park's history with the building located with prominent views of the Golden Gate. The building's character and interiors have been restored by removing decades of alterations, reconstructing missing architectural features, and returning the exterior to its original fenestration.

Architect | Bohlin Cywinski Jackson



Orange Park Community Center

South San Francisco, CA

This structure houses a 3,600 sf high-roof multi-purpose space and a 2,400 sf wing for administrative offices, kitchen, toilet room, and other support spaces. What makes this building unique and well suited for the mild climate of South San Francisco is the additional 10,800 sf of space outside of the building façade, which is sheltered by a cantilevered roof and trellis.

Architect | Marcy Wong Donn Logan Architects



Hercules Library

Hercules, CA

The City of Hercules' main library is a structure of complex angles and shapes beginning with an asymmetric butterfly roof that rises to a tall wall fronting the main street at the city's civic center entrance. At the center of the building, is an elliptical sky garden courtyard, which is rotated and skewed relative to the surrounding roof. Interior courtyard walls rise above the sky garden glazing and surround the courtyard, forming an inverted interior cone. The conical theme continues outside with a Children's Story Telling room set within a connected freestanding 30 foot tall conical tower capped with a tilted elliptical skylight.

Architect | William Turnbull Associates

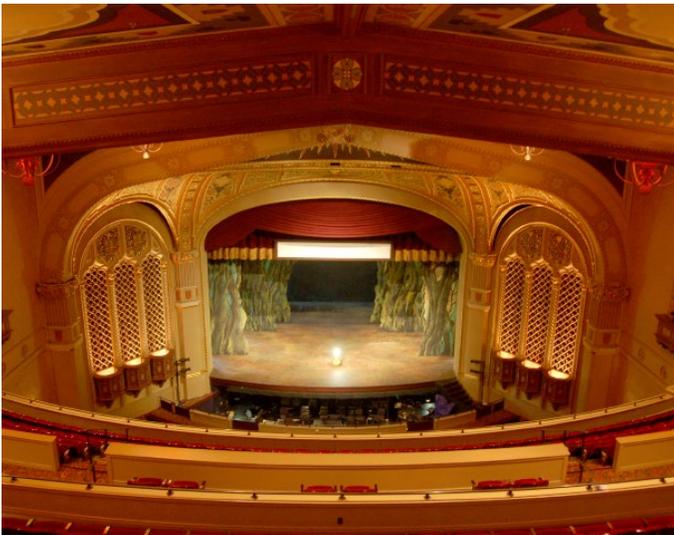


Mountain View Civic Center

Mountain View, CA

This major civic center complex includes a City Hall, Community Theater, and plaza courtyard all supported above a single level below grade parking structure. The City Hall is a three story steel framed structure, which includes a 324-seat proscenium theater/city council chamber. The steel framed Community Theater building features a two-level 625-seat main performing arts theater, a 200 seat black box theater, an outdoor stage, and significant back-of-stage and rehearsal facilities.

Architect | William Turnbull Associates



Fox Theater

San Jose, CA

The Fox Theater project included seismic strengthening of a historic 1927 theater and conversion to the San Jose Opera. The floor size of the stagehouse and height of the flyloft were found to be insufficient in comparison with other regional opera houses. Carefully placed to accommodate historical features, new structural framing and seismic bracing were added throughout the theatre. The original long and narrow First Street entrance foyer is supported with new steel frames placed above the roof with columns placed outside the existing concrete walls.

Architect | ELS Architecture and Urban Design



Ohana Montage Health Facility Monterey, CA

This three-story mass timber and steel hybrid health facility comes with residential care areas, offices, and therapy support spaces. Mass timber is used for the primary framing, establishing a balance between structural function and beauty. Exposed interior timber finishing emulates the oak trees surrounding the facility on this 10-acre site while simultaneously, expansive glazing extends people's connections with the outdoors. Additionally, the optimization of multi-sensory integration and treatment of weather and seasonal changes helps with minimizing the building's carbon footprint.

(construction in-progress)

Architect | NBBJ Architects



Quintessa Winery St. Helena, CA

The three private 250 square foot tasting pavilions are nestled amongst ancient oak trees atop a ridge located on the Quintessa Winery estate. Each secluded pavilion overlooks the rolling hills and an estate lake and can be entirely open-air in mild weather or fully glass enclosed in inclement weather or in the heat of late summer. The thin roof with concealed gutters and an 11' 6" overall cantilever provides an exceptionally clean appearance.

Architect | Walker Warner Architects



Flowers Winery Healdsburg, CA

The House of Flowers is a complete renovation and partial expansion of an existing winery. The project included lifting half of the building roof by 4 feet, replacing two exterior walls below the raised portion with full-height glazing, addition of a kitchen within the footprint of the existing adjacent building, and the addition of an open accessory structure housing the outdoor kitchen.

Architect | Walker Warner Architects

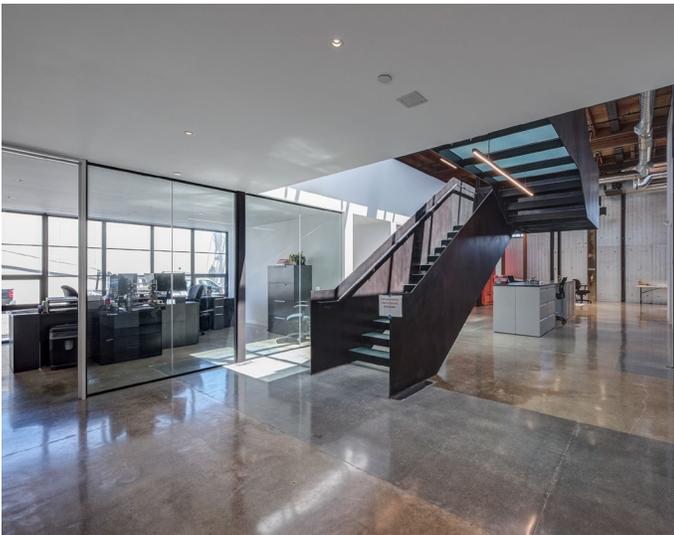


Voyageur Du Temps

Los Altos, CA

This Craftsman-style building was originally built in 1913 by Union Pacific to serve as the Los Altos passenger and freight depot on the Southern Pacific railroad. Throughout the history of the building it has been re-purposed as a restaurant, bank, antique shop, and now a bakery. The many prior renovations and the 1984 registration of the structure as a historical landmark made for some interesting challenges during design and construction, including the removal of the old bank vault without disturbing the surrounding structure. This latest update modernizes the interior spaces while preserving and enhancing the historic exterior.

Architect | Bohlin Cywinski Jackson



PCH Headquarters

San Carlos CA

This existing concrete and masonry warehouse building turned office/shop is a breath of fresh air amongst the industrial neighboring structures. The added features include a green roof and roof deck, a shipping container conference room which cantilevers out from the former loading dock, board-formed concrete entry feature wall, an open conference room with clerestory windows on all sides that bring in natural light, and a feature central stair cantilevered between the main level and upper level.

Architect | MEM Architects and Peninsula Custom Homes



Britannia East Grand

San Francisco, CA

The first of 11 buildings on this self-contained, 27-acre life sciences research and development campus leased by Genentec; buildings 5 and 6 are four-story steel framed structures designed with special concentric braced frame lateral system. Foundations included deep drilled slurry steel pipe piers to achieve support for the bay mud site and also to reduce spoils associated with convention drilled piers.

Architect | DES Architects



Ryan Ranch Community Hospital Monterey, CA

These Medical Office Buildings and Ancillary Buildings are the first two structures completed as part of this new medical campus located on a bluff overlooking the valley along the Monterey/Salinas Highway. Both buildings are two stories over a single level of below grade parking and include a mechanical mezzanine level between the roof and second floor. The steel frame structures for the MOB and Ancillary buildings employ Special Concentric Braced frames and Special Moment Resisting Space Frame lateral systems, respectively.

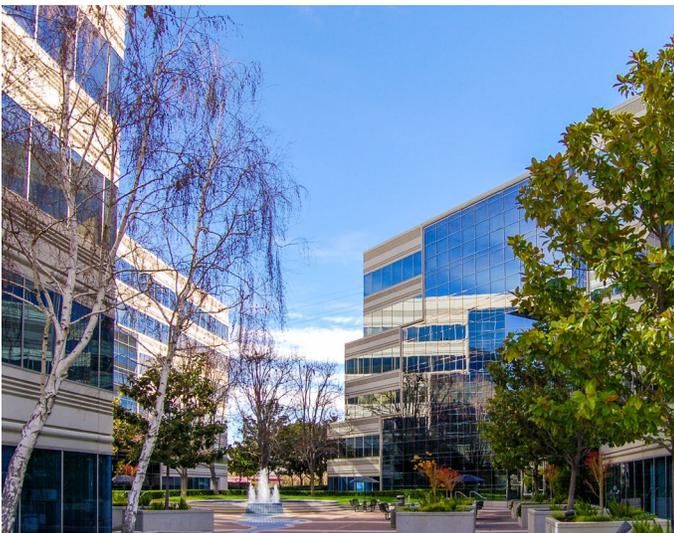
Architect | Gordon H. Chong & Partners



Apple Retail Store San Francisco, CA

This three-story steel framed structure over one level below grade was developed on a logistically complex site. The congested site is at the intersection of two of San Francisco's busiest streets (Market and Stockton) in the heart of the shopping and financial district. The design had to assure that pedestrian thoroughfares, electric bus lines, and the BART station entrance, at the first level within the building footprint, were protected and traffic maintained without interruption.

Architect | Bohlin Cywinski Jackson



Apple Computer Towers Campbell, CA

These two 6-story, steel-frame office buildings, first leased by Apple Computer, rise above a ground floor-level plaza over a single-level, below-grade 400 car parking structure that extends well beyond the footprint of both towers.

Architect | Hellar & Leaks Architects



Coruscant Office Campbell, CA

This exciting new Cross Laminated Timber office building harmoniously interweaves an abundance of natural light, warmth, and a carbon neutral footprint while pulling in the beauty of the mature trees surrounding the property.
(construction in-progress)

Architect | Modulus Architecture



Ohana Montage Health Facility Monterey, CA

This three-story mass timber and steel hybrid health facility comes with residential care areas, offices, and therapy support spaces. Mass timber is used for the primary framing, establishing a balance between structural function and beauty. Exposed interior timber finishing emulates the oak trees surrounding the facility on this 10-acre site while simultaneously, expansive glazing extends people's connections with the outdoors. Additionally, the optimization of multi-sensory integration and treatment of weather and seasonal changes helps with minimizing the building's carbon footprint.

(construction in-progress)

Architect | NBBJ Architects



Timber Towers San Jose, CA

This California project, currently in for permitting, includes two 12-story Cross Laminated Timber towers over a single level concrete podium plaza and garage level. As a timber building with a height that exceeds current code, the project was accepted by the building official with early adoption of the 2021 International Building Code provisions for taller mass timber building construction. When completed, this project is projected to be the tallest timber building in the United States. This project is a with teaming partner Fast + Epp headquartered in of Vancouver, BC.

Architect | Sera Architects



Sacred Heart Prep School Atherton, CA

TimberQuest™ made history as the first Cross Laminated Timber prefabricated classroom solution to receive pre-checked approval status from the Division of State Architecture, allowing for over-the-counter permitting. The solution offers schools multiple options from three to nine class rooms per building and optional modules for offices, science, kinder, and bathrooms. Sacred Heart Prep School in Atherton was the first to take advantage of this new building approach. In just under 11 weeks a beautiful four classroom TimberQuest™ building was completed, from breaking ground to ribbon cutting, right in time for the start of the new school year.

Architect | Aedis Architects



Mid-Peninsula Open Space Office Los Altos, CA

Midpeninsula Regional Open Space District looks to create an office environment that strengthens their public identity and reflect their core mission of open space conservation. The project includes the complete interior remodel of, and partial addition to, an existing early 1980s office building.

Architect | Noll&Tam Architects



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Architect | Modulus Architecture



Pivot House Portola Valley, CA

The three private 250 square foot tasting pavilions are nestled amongst ancient oak trees atop a ridge located on the Quintessa Winery estate. Each secluded pavilion overlooks the rolling hills and an estate lake and can be entirely open-air in mild weather or fully glass enclosed in inclement weather or in the heat of late summer. The thin roof with concealed gutters and an 11' 6" overall cantilever provides an exceptionally clean appearance.

Architect | SAW Architects



Winged Retreat

santa Lucia, CA

Set on a steeply sloping site in the hills of beautiful Carmel Valley, this private residence offers sweeping views of the surrounding verdant hillsides, which are framed by the twin cantilever roofs over the two living wings.

Architect | Aidlin Darling Design



Coastal Retreat

Half Moon Bay, CA

This two-story private residence and guest house, located on a coastal bluff overlooking a flat grassland and the Pacific Ocean, embraces contemporary cape cod styling. The home includes complex steel and timber framing that is not discernable with the clean appearance that makes the structure appear simple and seamless.

Architect | Walker Warner Architects



Plantation House

Hawaii

This beach side residence, located in North Kona on the island of Hawaii, is comprised of four separate living units. The buildings follow a traditional Hawaiian plantation style with a touch of modern refinement in the clarity of the structural wood members and the clean, fastener-free appearance of the connections.

Architect | Walker Warner Architects



Arbol House

Palo Alto, CA

The modern two-story residence over full basement and one-story guest house are located on two lots and open to the rear, connecting the interior spaces with an almost courtyard-like private outdoor space. The first floor of the main residence is almost completely glazed along the rear face of the building allowing a nearly unified interior and exterior living space.

Architect | Verner Architects



Creekside

Woodside, CA

This unique single story residence over a partial basement is sited on eight acres between two tributary dry creek beds. The bedroom and guest wing, which traverses one of the redwood and oak lined creeks, is juxtaposed to the kitchen and service wing. These two wings feed into and tuck under the floating roof of the large volume glass enclosed pavilion from opposite sides and all converge on the even taller library as the focal point of the entire site.

Architect | Bohlin Cywinski Jackson



Blue Oaks Residence

Portola Valley, CA

This sophisticated ranch style home in Portola Valley, CA is situated around two majestic blue oak trees in the front and descends the sloping hillside at the rear where a lower level daylight out to a grove of younger blue oaks, creating a harmonious relationship with the landscape. Exposed cedar to steel details are prominent throughout the residence, carefully coordinated for a clean and simple appearance. The project is located above a ravine defined by the San Andreas fault resulting in a robust lateral system, carefully concealed within the finish envelope.

Architect | Fergus Garber Architects



Three Pavillions Residence

Menlo Park, CA

This modern residence, nestled amongst old-age trees, is composed of three distinct spaces, which are interconnected by a combination of interior and exterior passageways, and an enclosed bridge. The high ceilings at the Great Room and Kitchen, along with the full-height glazing and doors opens the space up to the exterior, mingling with the surrounding trees. Full-height glazing throughout the rest of the pavilions continues this sense of communing with the park-like landscape.

Architect | Butler Armsden Architects



Incline Village

Nevada

This finely crafted residence on the north shore of Lake Tahoe is a two-story structure with the lower level benched into the sloping shore and daylighting towards the lake. The structure is a thoughtful amalgamation of timber, structural steel, and board formed concrete construction. Together with the architect we developed highly refined, clan timber framing to structural steel connections in all areas with architecturally exposed structural steel framing. The roof eave was optimized to provide longest and thinnest possible profile while supporting heavy snow loads.

Architect | Bohlin Cywinski Jackson



Atherton Refined

Atherton, CA

This carefully crafted home was completed with a particularly careful eye for detail in both design and construction. Coordination of all structural framing, MEP systems, and architectural finishes was meticulously carried out, resulting in a very refined and beautiful finished appearance.

Architect | Walker Warner Architects



Woodside Dry Creek

Woodside, CA

These two structures sit perched over one of two tributary dry creek beds that converge upon and border the site and are appurtenant to an existing residence. Upon entering the site these two buildings greet the visitor with architectural aesthetic which follows the exposed douglas fir rafter theme used in the main residence located further along the entrance drive.

Architect | Bohlin Cywinski Jackson



Portola Valley Panorama

Portola Valley, CA

Perched upon an open ridgeline in Portola Valley, this residence offers exceptional views of the surrounding hills. To take full advantage of the panoramic views and beautiful northern California weather, the living spaces open onto an exterior courtyard through full-width glazed sliding panels.

Architect | Ana Williamson Architects



Island Estate

Mercer Island, WA

This six-acre estate and business center includes an eight structure complex including indoor NBA basketball training center/swimming pool connected through an office wing to the indoor tennis pavilion, second residence/library, guest house, 13 car garage, underground movie theater, a ground level fine arts gallery, pool house, main residence expansion and second guest house. All buildings are either below grade or benched into the hillside to day light at the lake side.

Architect | William Turnbull and Charles Moore



Glass Addition

San Francisco, CA

This contemporary addition to a historic mission style home in the San Francisco Presidio is defined by several jewel box spaces, each glazed on three sides. The different cube spaces include large expanses of floor to ceiling glass, exterior walls with steel columns supporting steel roof beams, which in turn support a thin flat roof assembly. A cantilevered concrete slab system gives the appearance of a floating floor along the exterior.

Architect | Shands Studio



Calistoga Retreat

Calistoga, CA

Renovation and modernization of a traditional farmhouse situated amongst old-age walnut trees and surrounded by Napa Valley vineyards.

Architect | Bohlin Cywinski Jackson



Atherton Pavillions

Atherton, CA

Two backyard pavilion structures used as a fitness room and outdoor kitchen, wrapped in vertical and horizontal cedar slats, with transparency for integration with the landscape. The steel connections supporting the slats have been carefully designed to be replaceable, allowing for full disassembly and reassembly with minimal disturbance to the remaining building and finishes. Thin concrete slab edges give the appearance of a floating structure.

Architect | Feldman Architecture



Potrero Hill Playful

San Francisco, CA

This project includes the third-floor addition and complete seismic upgrade of an existing residence in San Francisco's Potrero Hill neighborhood. Varied roof slopes, which read through to the interior of the addition, in conjunction with the skylights and interstitial glazing lend this new living space a light, playful feel. The playfulness continues with the swing-set seats hung from the ceiling at the Kitchen Island bar.

Architect | Levy Art and Architecture



Atherton Classic Renovation

Atherton, CA

This addition and remodel to an existing American Neoclassical styled residence required much more than meets the eye. The scope involved extending the existing rectangular structure on either side at both the first and second levels and projecting wings to the rear of the residence off each extension at the first level. Completing this required extensive rearranging of the existing interior spaces and support structure to allow the final room layout to flow seamlessly from the existing areas to the added wings.

Architect | David Buegler Architect



Atherton Traditional

Atherton, CA

Tucked in the tree-lined neighborhood of Atherton, this classical style residence complex includes a detached 3-car garage and pool house. The main residence sits over a full basement which includes a guest suite, game room, wine cellar and a gym, which opens up to a large lightwell.

Architect | David Buegler Architects



Atherton Classical

Atherton, CA

This unusually tall, single-story neoclassical style residence was originally built in the mid-1980s but was an odd collection of tall dark rooms with dark narrow hallways. This extensive remodel and seismic retrofit project added multiple skylights, glazed French style doors in the kitchen and casual dining areas, and new front and rear glazed entryways to bring in natural light transforming the high ceiling spaces into elegant and inviting rooms.

Architect | Butler Armsded Architects



Palo Alto Traditional

Palo Alto, CA

This French Modern style residence has all the appearances of traditional French vernacular with very refined detailing from the exterior, but inside the home the space opens up to reflect the owner's more contemporary life style with a large great room/ kitchen space and larger living room space. The great room space also opens to the backyard with two sliding panel doors that together extend the full length of the rear facing elevation.

Architect | David Buerger Architects



Portola Valley Cascade

Portola Valley, CA

This unique multi-level residence is constructed entirely of cast-in-place concrete to achieve the Indian motif of four slender columns topped with a single column cap, which was used throughout the structure. Concrete framing was cast using custom shaped and joint-filled MDF forms followed with surfacing by sand blasting and/ or bush hammer to produce finished concrete with a seamless and monolithic appearance. The house includes multiple green sod roofs with raised rooftop planters that follow the natural grade of the surrounding hillside.

Architect | Arthur Erickson



Quarry Mountain Residence

Park City, UT

This new residence includes a series of single-story structures composed of three gable roof pavilions with their timber and steel roof framing mostly exposed, and flat living roofs planted with native grasses from the surrounding landscape. The residence, sited on a vast plain that slopes mildly upwards to the mountains, will be lowered into the landscape to blend with its surroundings.

Architect | Olson Kundig Architects



Martis Twist

Truckee, CA

This new residence is set into the sloping mountain side in Martis Camp, Lake Tahoe, featuring a sculptural bedroom wing that twists over the main residence. Majority of the residence is benched into the hillside while the bedroom wing flows along the hillside, forming a protective courtyard with views toward the valley below. The project includes a mostly subterranean garage and an at-grade indoor/outdoor living space, and a cantilevered bedroom wing.

Architect | Verner Architects



Portola Valley Preserve

Portola Valley, CA

Perched atop a knoll on the Preserve, this new residence melds into its environment with stepping roofs and earth-hugging lateral lines in the cedar finishes and board-formed concrete walls. The main residence includes a double-height library space and living space with views and access to the rear courtyard, beyond which the view of the bay extends beyond peripheral limits. The custom landscape features spill down to the pool and cabana structure featuring a 20 ft cantilevered roof. The dining terrace, flanking the main house overlooks the shop and guest house.

Architect | Walker Warner Architects



Atherton Contemporary

Atherton, CA

Tucked away on a serene street in Atherton, this new residential compound includes detached guest house and garage/workshop. The home's three wings are interconnected by walkway "bridges". All three structures are partially covered by an extensive trellis system, which provides continuity between structures. Other prominent project features include one and two-story artistic finished concrete walls, two feature steel fin shrouds surrounding the full-height glazing at the front and rear of the residence, a three-story glazing wall at the central wing of the main residence continuous from the basement to the roof and including an operable aluminum and wood privacy screen wall, and a sunken terrace with cascading water feature.

Architect | Aidlin Darling Design



Portola Valley Modern

Portola Valley, CA

This 10-acre estate blends into its hillside environment and forms a "U" shape wrapping around a single dominant oak tree. The complex curved roof form covers both interior and interstitial exterior spaces with large openings over outdoor spaces to allow daylight for trees and other planting. The upper roof profile sweeps upward at opposing ends to bring more light into the spaces below through the full perimeter clerestories. The thin roof profile also has particularly long spans and large roof expanses that cantilever over structural concrete and rammed earth walls.

Architect | Aidlin Darling Design



Tehama Residence

Carmel, CA

The experience of this new residence begins as you approach the main entrance from a foot bridge that emerges from natural grade and slopes up to meet the front entrance. The bridge leads to a floating deck that extends the length of the central wing and the central wing bridges over the descending natural hillside terrain below. Other design features include thin profile cantilever elements and extensive use of vertical louvered exterior wall elements to let in filtered light.

Architect | John Maniscalco Architecture



Pivot House

Portola Valley, CA

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Architect | SAW Architects