

ALFATECH

INNOVATIVE IDEAS | INTEGRATED SOLUTIONS | SUSTAINABLE PARTNERS

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- 02 Markets & Relevant Projects



01

OVERVIEW

Profile & Services

OVERVIEW

The San Francisco Bay Area and Silicon Valley have been experiencing a real estate renaissance over the past several years, driven by a number of factors. Talent pool is a big part: Silicon Valley technology firms are expanding to San Francisco to attract employees who desire the urban lifestyle, while expansion to the East Bay to attracts employees for other reasons, and so forth.

Many new developments are underway, some quite sizable and with complex teaming structures, and more in the planning which will attract more movement to other parts of the Bay Area. Rental rates continue to climb and housing prices continue to rise as a reflection of this.

While eyes continue to be on the San Francisco Bay Area/Silicon Valley real estate market, many companies with a broader reach are driving expansion across California, throughout the United States and around the world.

Many of our clients continue to rely on AlfaTech's resources and knowledge base as a valued team player while they are making important decisions about their facility needs whether locally or globally.



By 2050,
70%
of the world's
population will be
living and working in an
urban environment

PROFILE



125 US employees
300 employees worldwide

AlfaTech has built its reputation on providing the most innovative and sustainable engineering solutions for all levels of urban residential development, from master planning through construction administration.

Our presence is not only California and Atlanta, but also internationally. Our clients include numerous large multi-national firms, many ongoing clients we've been serving for years.

We strive to provide intelligent and innovative strategies starting with project inception, in order to provide maximum benefit to our clients during the entire development process whether it be new residential villages, mixed use projects or revitalization of existing communities.

Our team provides the most appropriate engineering design solutions which are highly efficient and cost effective, and promotes the greatest possible return on investment for our clients.

Our goal is to build the most dynamic relationships, be attentive to the needs of our clients and partners, and be true team players. With this mindset, we've built a stellar list of clients.



United States:
San Francisco
San Jose
Los Angeles
Atlanta

International:
Dublin
Singapore
Sydney
Queensland
Hong Kong
Shanghai
Taipei
Abu Dhabi
Dubai

CLIENTS

3M Company
 AARP
 Abbott Biotherapeutics
 Abbott Laboratories
 Abbott Vascular Inc
 Abgenix
 Abt Associates Inc
 ACCO Engineered Systems
 Activision
 Adaptec Inc
 AOC
 Adobe Systems
 Advanced Micro Devices Inc
 Advantest America, Inc.
 Advent Software, Inc.
 Aetna Inc
 Affymetrix
 Agilent Technologies Inc
 AKQA
 Akamai Technologies
 Alcoa Inc
 Allen, Matkins et al
 Alliance Bernstein LLP
 Alta Bates Health System
 Altera Corporation
 Alum Rock School District
 Alza Corporation
 Amazon/Lab 126
 Ambiance Associates
 Amdocs
 American Express Company
 Amgen Inc
 Amstein + Walthert
 Anixter
 Applied Dynamics Inc
 Applied Materials
 Atmel Corp
 Autodesk Inc
 Avaya
 Avery Dennison Corporation
 Avid Technology Inc
 Avidex
 BAE Systems Inc
 Bank of America
 Bayer
 Bechtel Corporation
 Belkin Lab
 Berryessa USD
 Bingham McCutchen LLP
 Bio-Rad Laboratories
 BioGenex
 BioMed Realty Trust Inc
 Bloom Energy
 BMC Software
 Booz Allen Hamilton Inc
 Boston Properties

Boston Scientific
 Bradford Schools Inc
 Brewer, Fraser & Holland
 Brian L. Cochran Associates
 Bristol-Myers Squibb
 Broadcom Corporation
 Broadreach Capital Partners
 Brocade
 Cadence Design Systems
 Cal Pacific Med Center
 California Pacific Orthopedic Sports & Medicine
 CarrAmerica Development
 Cartoon Network
 Cast & Crew Entertainment
 Chabot Las Positas Community College District
 Charles Schwab
 Chevron
 Children's Hospital Oakland
 Cisco Systems Inc
 Citigroup Realty Services
 College of Contra Costa
 College of Marin
 Computer Associates Int'l
 Compuware
 CoreSite
 Cornell University
 County of Monterey
 County of Sacramento
 County of San Mateo
 County of Santa Clara
 Credence
 Crispin Porter + Bogusky
 CSAA
 CSU Northridge
 Dell
 Delta Products
 Deloitte Consulting LLP
 Desert Troon Companies
 Digital Realty Trust
 Dignity Health
 Direct TV
 Disney TV Group
 Dominican Hospital
 Dreamworks
 Dropbox
 East Side Union HSD
 eBay
 Eli Lilly & Company
 Emirates National Oil
 Empire State Development
 Equinix
 Equis Corporation
 Ericsson
 Ernst & Young LLP
 Exelixis
 Facebook

Ferrari Maserati of Silicon Valley
 Fidelity Investments
 Fireman's Fund Insurance
 First Franklin Financial Corp
 Flextronics
 Foundry Networks
 Franklin Templeton Investments
 Fullscreen
 Genentech
 General Dynamics
 General Electric Co
 Genzyme Corporation
 Gibson, Dunn & Crutcher LLP
 Gilead Sciences Inc.
 Goldman Sachs & Co
 Good Samaritan Hospital
 Google
 GSA
 Hayward USD
 Hewlett Packard
 Highland Hospital
 Hitachi America Ltd
 Hulu
 IBM
 Impax Laboratories Inc
 Informatica Corporation
 Intel
 InterMune
 Intuit
 J&W Scientific
 JDS Uniphase Corporation
 John Muir Medical Center
 Johnson & Johnson
 JP Morgan Chase
 Juniper Networks Inc
 Junipero Serra High School
 Kaiser Permanente
 Kasowitz, Benson et al
 KCET Television
 Kimpton Hotels
 KLA-Tencor Corp
 Konami Digital Entertainment
 Lam Research
 Laney College
 Lawrence Berkeley Lab
 Letterman Digital Arts
 Levi Strauss & Company
 Linear Technology
 LinkedIn
 Lockheed Martin Corp
 Logitech
 Los Gatos Saratoga HSD
 Marriott International
 Marvell Semiconductor Inc
 Maxim
 McKesson

Medarex
 Menlo Park City School District
 Microsoft
 Molecular Devices Corporation
 Monterey Peninsula College
 Morgan Hill USD
 Morgan Stanley Corporation
 Morrison & Foerster LLP
 Motorola
 Mountain View School District
 NAI Global
 NASA-Ames
 National Semiconductor
 Network Appliance
 Nokia
 Nortel Networks
 Northrop Grumman Corp.
 Novartis
 Novell Inc
 Novellus Systems Inc
 NVIDIA
 Ohlone Community College
 OptiSolar Inc
 Oracle Corporation
 Orchard Properties
 OWN – Oprah Winfrey Network
 Pacific Bell
 Pacific Gas & Electric
 Panattoni Europe
 Panavision
 Pfizer Inc
 Philips Semiconductor
 Pitney Bowes Inc
 Polycom
 Port of San Francisco
 Presidio Trust
 Price Waterhouse Coopers
 Qualcomm
 Queens Medical Center
 Riot Games
 RAMBUS
 Redbull
 Rensselaer County IDA
 Riverbed Technologies
 Robert Half International
 Roche Bioscience
 Ross Stores Inc
 Safeway Inc
 Salesforce.com
 Samaritan Medical Center
 Samsung
 San Francisco City Hall
 San Francisco International Airport
 San Francisco USD
 San Jose Redevelopment Agency
 San Jose State University

San Mateo Community College
 San Mateo County Office of Education
 Sandia Laboratories
 Santa Clara University
 SAP Labs
 Saratoga USD
 Savvis
 Seagate Technology
 Sequoia Hospital CHW
 Sequoia Union HSD
 Siemens
 SLAC National Accelerator Laboratory
 Soka University
 Solectron Corporation
 Sony America
 Spansion
 Sprint
 SRI International (Stanford Research)
 St. Francis Memorial Hospital
 St. Mary's Hospital
 Stanford Healthcare & Clinics
 Stanford University
 Stanford University Medical Center
 Stion Corporation
 Stryker Endoscopy
 Stubhub
 SunPower
 Sutter Health
 Sybase Inc
 Symantec
 Synopsys Inc
 Sysorex
 T-Mobile
 Tencent
 Tesla Motors
 The Gap
 Twitter
 Uber
 UC Berkeley
 UC Davis
 UC San Francisco
 UC Santa Cruz
 UCLA
 Ultratech
 University of Colorado Hospital
 Univision
 URS
 Verisign
 Verizon Communications
 Veteran's Administration
 Visa International
 VMware
 Wachovia Bank
 Warner Bros..
 Wells Fargo
 Yahoo

SERVICES

SUSTAINABILITY

Sustainability Planning (Organizational and Infrastructural)
LEED / Green Building Consulting
Masterplanning
Life Cycle Cost Assessment
Occupant Wellness and Comfort

MECHANICAL ENGINEERING DESIGN

HVAC
Heating Systems Water and Gas
Cooling Systems / Chilled Water
Dehumidification Systems
Contamination Sensitive Areas
Industrial Hygiene Systems
Low Tolerance Temp Control
Title 24 Analysis and Design
Heat Recovery Systems
Central Utility Plants
Air Handlers HVAC System Controls
PLC Programming
Fire Protection and Plumbing

ADVANCED SIMULATIONS

Façade Engineering
CFD / Wind Studies
Wind Studies
Thermal Stratification Studies
Energy Concept Studies

ELECTRICAL ENGINEERING DESIGN

Power Systems
Emergency & Standby Power
Lighting and Lighting Controls
Security Systems
24 / 7 Power Systems (UPS)
Power Monitoring Systems
Toxic Gas Monitoring

ELECTRICAL ENGINEERING DESIGN (Continued)

Graphic Control and Alarm Panels
Grounding and Bonding
Energy Management
Energy Conservation
Fire Alarm Systems
Public Address Systems
Plug Loads Control

ARCHITECTURAL LIGHTING DESIGN

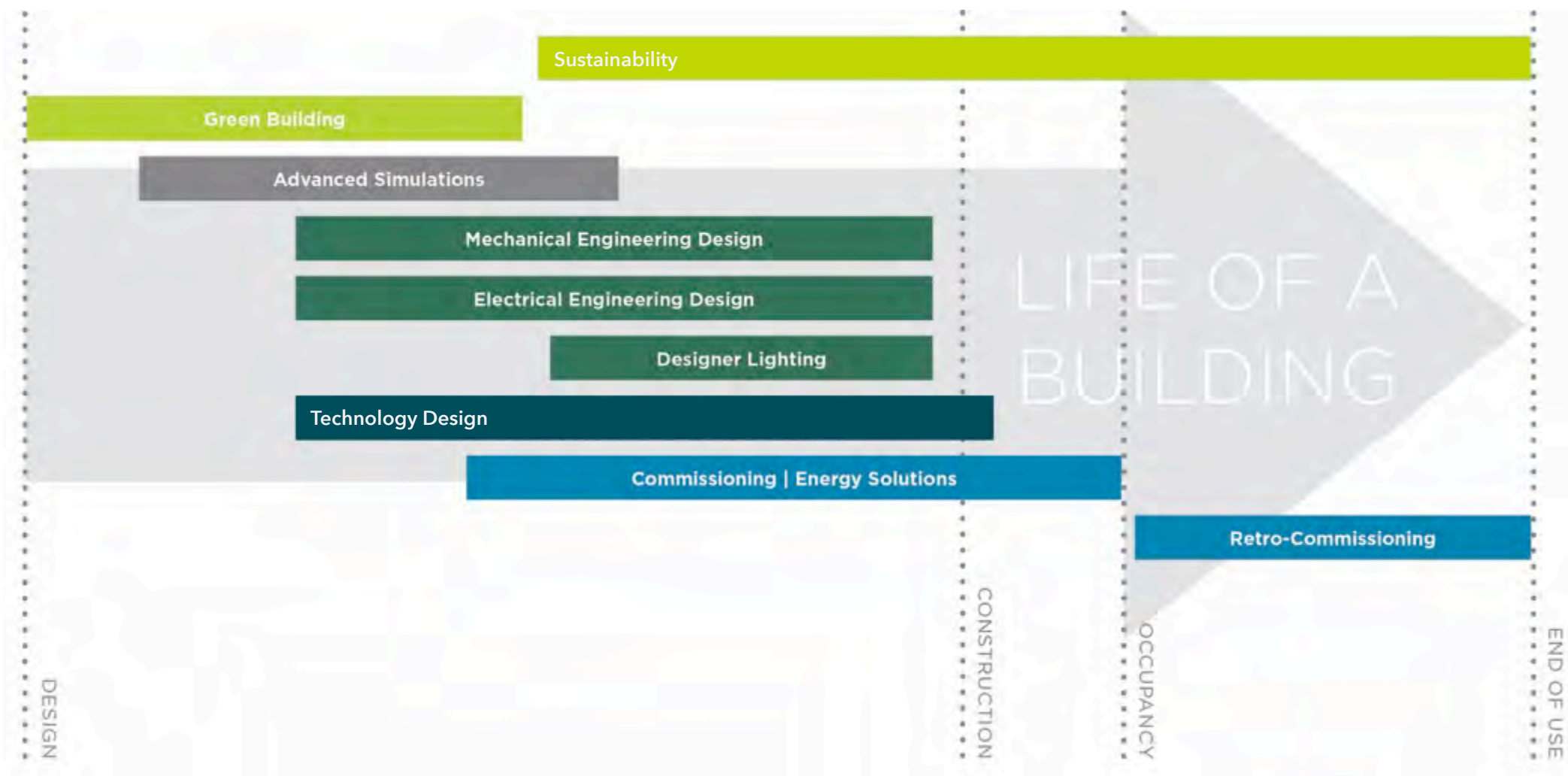
Lighting and Lighting Controls
Lighting Calculations
Customized ROI Calculations
Sustainable Lighting Design
Energy Savings Analysis
Custom Lighting Fixtures
Design for finishes, fabrics and light sources

TECHNOLOGY DESIGN

Low Voltage Design
Security Design
Audio Visual Design
Wireless Design & Modeling
Strategic Consulting
Project Management
Relocation & Migration

COMMISSIONING | ENERGY SOLUTIONS

Early Quantifiable Energy Study
Incentives
Energy Star® Assessments
Retro-commissioning (RCx)
Monitoring Brand Continuous Commissioning (MBCCx)
ASHRAE Level 1, 2 and 3 Energy Audits
Measurement and Verification (M&V) of installed projects
Energy Modeling
Net Zero Energy Budgeting
HVAC/Chilled Water Plant Optimization





02

MARKETS & Relevant Projects

CORPORATE OFFICE

UBER

AlfaTech has been providing comprehensive engineering design services for nearly 2M SF for Uber since 2014. This includes:

- MEP Design
- Architectural lighting design
- Architectural Lighting Design
- Rainwater Collection System Design
- PV and Fuel Cell Design
- Technology (Security, IT and A/V) Design
- Commissioning

Following are significant Uber projects:

UBER / MISSION BAY NEW HEADQUARTERS

San Francisco, California

Type: New site and Two High-Rise Office Buildings
Size: 420,000 SF (2014-2015)

AlfaTech provided comprehensive engineering and technology design for two new high-rise buildings for Uber's new headquarters.

AlfaTech provided design services for initial master planning and building design. AlfaTech then provided full design, MEP, Technology, PV and fuel cell system design for the full shell/core and tenant improvements. This included administrative office space, full kitchen/cafeteria, daycare and retail space.

UBER / UPTOWN STATION

Oakland, California

Type: High-Rise Office Building
Size: 520,000 SF

AlfaTech provided MEP and Technology Engineering Services for his high-rise building in center of the city. AlfaTech provided full design services for site, shell/core and tenant improvements, which included central chiller plant and 12kv high voltage power distribution.

UBER / 1455 MARKET STREET

San Francisco, CA

Type: Office Tenant Improvements
(2015-2016)
Size: 177,000 SF

AlfaTech provided mechanical, electrical and plumbing engineering design service and commissioning for Uber's original headquarters in this downtown high-rise. This project encompassed five floors.

UBER / 685 MARKET STREET

San Francisco, CA

Type: High-rise offices and full kitchen (2016)
Size: 154,000 SF

AlfaTech provided mechanical, electrical, and plumbing engineering design service and commissioning for seven floors of this downtown location. This included administrative office space, breakout areas, kitchenettes and conferencing space.

UBER / 555 MARKET STREET

San Francisco, CA

Type: High Rise Offices
Size: 247,000 SF

AlfaTech provided mechanical, electrical, and plumbing engineering design service and commissioning for fifteen floors in this 21-story office building in downtown San Francisco. This project included administrative office space, breakout areas, kitchenettes and conference spaces.



LINKEDIN San Francisco, CA

Type: Office
Size: 450,000 SF

AlfaTech is providing mechanical, electrical and plumbing engineering services for this new ground-up project currently under construction in the heart of SOMA in San Francisco. The project, recently awarded, includes tenant improvements to the 26-story office building located at 222 Second Street.

LINKEDIN Mountain View, CA

Type: Office
Size: Approx. 575,000 SF
Projects:

- Building B: 6 stories, 208,500 SF
- Building C: 6 stories, 208,500 SF
- Building D: 4 stories, 152,600 SF
- Campus Service Building: 5,000 SF

AlfaTech provided mechanical, electrical, plumbing engineering, and lighting design services in support of tenant improvements for three buildings and a campus service building.

LINKEDIN Sunnyvale, CA

Type: Office
Size: 576,000 SF

AlfaTech provided mechanical, electrical, plumbing engineering and lighting design services for this new ground-up campus including full cafeteria and multipurpose.

LINKEDIN New York, NY

Type: Office
Size: Approx. 80,000 SF

AlfaTech is providing full design for all technology infrastructure, including structured cabling, and AV systems. Facilities included training rooms, all-hands and various sized meeting spaces, and videoconference rooms. Responsibilities included full coordination with the design team, development of technology plans and specifications, facilitation of the bidding process for low voltage and AV sub-contractors and support during construction. AlfaTech developed and continues to maintain the technology standards for LinkedIn that have been used for this and many other projects globally.



CORPORATE OFFICE

CONFIDENTIAL HIGH-TECH CLIENT

345 Spear Street, San Francisco, CA

Type: Tenant Improvement

Size: 89,000 SF

MEP services for new 89,000 SF office space on one single floor plate to house this client's first San Francisco presence. AlfaTech provided MEP Bid Documents and subsequent review of the MEP Design-Build Subcontractors' Permit and Construction Drawings.

This project consists of the 6th floor build out, including new 64,000 SF café, remodel of another 8,000 SF Café and 5th floor remodel. This project included video conference rooms, creative break-out spaces, lunch/break areas, and server room.



SUNPOWER CORPORATION HEADQUARTERS

Richmond, CA

Type: Campus
Size: 80,000 SF

AlfaTech provided design-build services for the company's expansion into the historic Ford Plant in Richmond, CA. The new facility includes a 65,000 SF manufacturing plant, 180,000 SF office headquarters, and a 30,000 SF R&D facility. Key components of the project include R&D tool installations, manufacturing rack and assembly, and a roof PV plant. Provided project management services during lease and work letter scope definition negotiations with developer's design build team



CORPORATE OFFICE

MOTOROLA MOBILITY – LEED SILVER

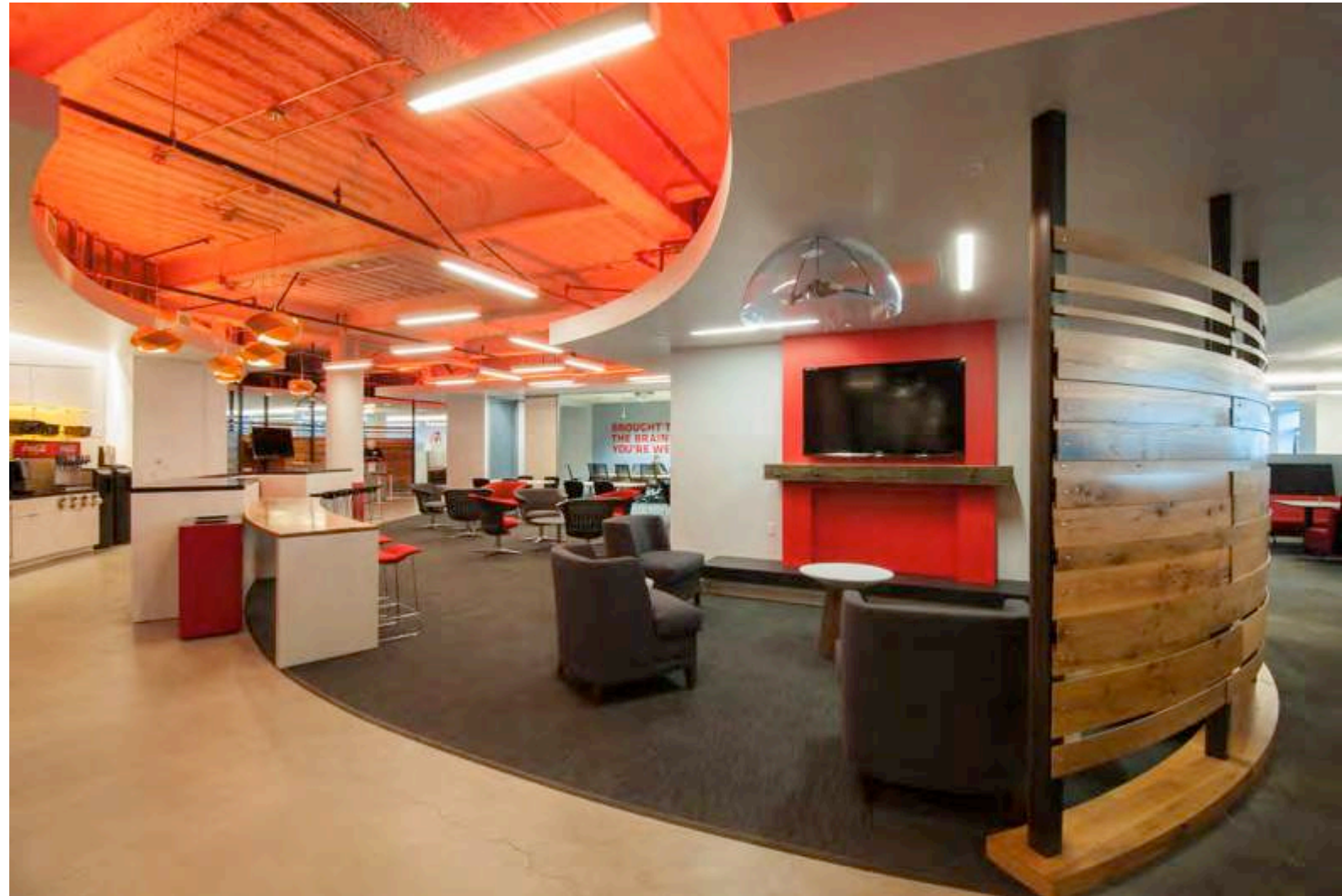
Moffett Towers, Sunnyvale, CA

Type: Office

Size: Three floors

AlfaTech provided MEP and fire protection engineering design for this 35,000 SF tenant improvement project. The project included TI's on the 6th-8th floors, and a new data center on the 1st floor.

Our technology team took the lead in providing due diligence of the existing facilities and transferred the information to the programming for the new building; making all necessary technical changes in order to improve the facility from operational and circulation point of view. The project achieved LEED Silver.



EBAY

San Jose, CA

Type: Office, Data Center
Size: 109,000 SF

AlfaTech provided full mechanical and electrical upgrades for eBay's "North Campus" which is affiliated with the Corporate Headquarters facility also located in San Jose.

The firm provided engineering design for interior improvements for two 109,000 SF buildings including a 6,000 SF data center and two server rooms for this Fortune 500 Firm.

EBAY BUILDING 17

San Jose, CA

Type: Campus building
Size: 189,590 SF

AlfaTech provided engineering design services for eBay's newest North Campus 5-story Building 17 in San Jose. This included a new core and shell and tenant improvements.

AlfaTech also prepared electrical infrastructure design for the installation of a roof-mounted 100kW photo-voltaic panel installation. Services included feeder and panel load calculations, code search, electrical plans and coordination with Owner, panel vendors and Contractor to integrate the PV panel system into the 5-story building's electrical power distribution and grounding systems. This project achieved LEED Gold.

LEED
GOLD



INTUIT CAMPUS CENTER – LEED GOLD

Mountain View, CA

Type: Campus
Size: 42,000 SF

AlfaTech was selected to provide mechanical, electrical, and plumbing engineering design services for a 42,000 SF office building conversion to a campus center for Intuit.

Amenities include: 15,000 SF cafeteria, 12,000 SF fitness center, 13,000 SF conference center, and 3,000 SF “innovation gallery.” Exterior improvements include a sports court and amphitheater.



RIVERBED

San Francisco, CA

Type: Office Building

Size: 155,833 SF

AlfaTech provided mechanical, electrical and plumbing engineering design services for this project, which consisted of tenant improvement to floors 2 through 7 for a total of 155,833 SF.

The project included open office workstations, meeting rooms, conference rooms, and cafeteria with warm-up kitchen, IT rooms and support areas.



SEAGATE TECHNOLOGY CAMPUS

Fremont, CA

Type: Campus
Size: 450,000 SF

AlfaTech provided MEP, Technology, Lighting, and Commissioning services for this Seagate Media Research and Development Center (MRC2) in Fremont, California which is a 450,000 square foot facility that incorporates offices, labs, warehouse and prototype manufacturing. The facility includes 70,000 square feet of class 4 and class 5 clean room space on a custom four foot raised floor allowing for extensive utility distribution. Most of the occupied space is on the first level, except for a two story office space. There is a large second level the houses support infrastructure including electrical distribution, air handling units and technology support.



MIXED USE | RETAIL | HOSPITALITY

TRANSBAY TOWER, 101 1ST STREET – LEED
PLATINUM

San Francisco, CA

Type: Mixed-Use

Size: 1.4M SF

The project consists of approximately 1.4 million SF of Class A office space over 60 floors with a building height of 1,070 feet tall. The building was a mix use of office, transportation, retail, and residential uses. As a project manager Marcus Key was responsible for the design and coordination of the core and shell Mechanical, Electrical, Plumbing and Fire Protection systems. The construction cost for this project was \$1.1 billion. The software used was Revit. The project is pre-certified LEED Platinum and is scheduled to be completed in the fall of 2017.



* Completed by AlfaTech principal during previous employment

PARK TOWER AT TRANSBAY BLOCK 5 – LEED GOLD
San Francisco, CA

Type: Mixed-Use
Size: 750,000 SF

Located in the heart of San Francisco's rapidly developing downtown South of Market Transbay Transit Center. Park Tower is a 43 Story Class AA++ 750,000 square foot high-rise office building that will peak at 605 feet tall. The project is being developed by The John Buck Company out of Chicago, Illinois with Goettsch Partners as the design Architect and SCB San Francisco as the Architect of Record. The project unique design incorporates multiple outdoor patios up through the tower to create open space for the tenants given the project is located on a relatively small site and open space at the ground level is limited. The projects unique design for flexible office space incorporates a structural design designed by MKA that comprises of a concrete core, with the low rise floors 2 through 11 being a post tension slab, and floors 12 through level 43 being a structural steel system connected to the concrete core. The design was developed to accommodate higher open floors in the low rise for tech style tenants. The buildings Mechanical systems are also unique in response to the flexible use of space. The low-rise floors are conditioned by floor-by-floor air handling units serving conditioned air through a raised floor system. The mid and high rise system comprises of two central roof mounted dedicated outside air system that provide conditioned air to the tenant floors for connection to overhead fan powered terminal units. The design focus was for energy efficiency while minimizing the impact to the core and maximizing leasable floor area. The construction cost is \$690 million. The software used was Revit. The project will be completed in 2018 and is Pre Certified LEED Gold.

** Completed by AlfaTech principal during previous employment*



181 FREMONT – LEED PLATINUM

San Francisco, CA

Type: Mixed-Use

Size: 435,000 SF

The 800-foot tall, 70-story mixed use high rise project centrally located in Downtown San Francisco Transit Center district includes 432,000 square feet of Class A office space located in the Low and Mid Rise sections of the building with an Amenities Level connecting to the 17 Ultra Luxury Residential High Rise floors. The construction cost was around \$500 million. The software used was Revit. The project is scheduled to be completed in the fall of 2017 and is seeking to achieve LEED Platinum Certification.



* Completed by AlfaTech principal during previous employment

AMEX EXECUTIVE LEVEL
CARD MEMBERSHIP LOUNGE – LEED PLATINUM

San Francisco International Airport Terminal 3,
San Francisco, CA

Type: Hospitality
Size: 7,000 SF

AMEX wanted a unique, high-end lounge to accommodate its exclusive members and to be a destination locale within the new international terminal at SFO.

AlfaTech provided mechanical, electrical and plumbing engineering, technology and security services for this high end 7,167 SF tenant improvement project, including kitchen, lounge and restrooms located in the Mezzanine level of Terminal 3.

This is a LEED Platinum project.



CULINARY ARTS

Santa Rosa, CA

Type: Kitchen, Classrooms, Office

Size: 70,000 SF

This 70,000 SF building at Santa Rosa Junior College includes four restaurant grade kitchen/classroom areas, student lecture classrooms, and office area for administrative staff. It features four teaching kitchen areas each with a capacity for approximately 25 students. Each kitchen has type I (grease) and type II (vapor) exhaust systems. All exhaust systems for the kitchens feature Variable Flow Hoods that considerably reduces exhaust fan energy consumption. All kitchen make up air is provided by a 50,000 CFM Air Handling Unit with FanWall technology that allows the air flow range to vary from 700 CFM to 50,000 CFM by using an asymmetrical VFD assignment to the FanWall fan array.

This type of airflow volume flexibility allows the Air Handling Unit to provide make-up air to one hood in the entire kitchen or all the hoods in the four kitchens. Air conditioning is achieved through the use of zoned heat pump units water cooled through two closed circuit cooling towers. The building will be equipped with a solar thermal array sized to provide all domestic hot water needs of the building, including the kitchens.



FERRARI MASARATI OF SILICON VALLEY

Redwood City, CA

Type: Dealership
Size: 23,000 SF

The firm provided mechanical, electrical, and plumbing engineering and technology design services for this 23,000 SF luxury car dealership.



MINA RESTAURANT GROUP / BOURBON STEAK & PUB RESTAURANT

Levi's 49er Stadium, Santa Clara, CA

Type: Restaurant
Size: 15,500 SF

AlfaTech provided MEP design services for this new restaurant at the Levi's 49er Stadium. This is one of the newest restaurants of well-known Chef Michael Mina. The facility includes three separate dining options: Bourbon Steak, which is the upscale restaurant side; Bourbon Pub which is a full services pub overlooking the exhibition kitchen, and The Tailgate event space. All three areas are separate and designed to provide each a different experience to diners. The restaurant features a complete, professional kitchen, and features a custom-built wood fired 13-foot rotisserie wall equipped with a crane. In total, seating capacity is 630.

MINA RESTAURANT GROUP / PABU IZAKAYA RESTAURANT

San Francisco, CA

Type: Restaurant
Size: 10,000 SF

AlfaTech provided MEP design services for this new 10,000 SF destination restaurant in the heart of San Francisco's Financial District from renowned Chef Michael Mina. The Mina Group desired a large bar area, large dining area seating 90, and a separate sushi bar seating 30-40. The facility features a full kitchen, stand-alone sushi bar and Japanese *robata* grill.



RESIDENTIAL | Multi Family

METROPOLIS CONDOMINIUMS

Los Angeles, CA

Type: Mixed-Use Residential
Size: 310 units + 11,000 SF retail

Provided architectural and energy modeling services for three massive towers – full of condos, retail space and hotel rooms. First tower, a 38-story 310 units has been completed and by 2018 there will be a total of 1,500 condos altogether, making it the largest mixed-use development in the West Coast. Provided architectural and energy modeling services. This project includes Class I construction.



RESIDENTIAL | Multi Family

LUMINA – 201 FOLSOM – LEED PLATINUM

San Francisco, CA

Type: Residential Facility

Size: 1M+ SF

The Design/Build new construction project included four residential buildings, resting on a common sub-structure. There were more than 650 units in this project. The buildings comprised of: two 9-story structures, Plaza A and Plaza C, 41-story Tower B and 36-story Tower D. The amenities featured for this residential development will include: ground floor retail, below grade parking, valet and on-site concierge service, state-of-the-art fitness center, spas/saunas, theater, children's playroom, game room, business center, conference rooms and board rooms. The construction cost was \$620 million and the project was completed in 2016.



** Completed by AlfaTech principal during previous employment*

UNION HOUSING DEVELOPMENT

Union City, CA

Type: Residential

Size: 309,315 SF

The firm provided mechanical, plumbing, and fire protection engineering, as well as sustainable design for a 309,315 SF, six-story mixed-use residential development. The project will provide approximately 157 one, two, and three bedroom units totaling approximately 148,998 SF.

Additionally, the development will comprise of ground level flex commercial spaces, which could accommodate a café. Parking for residents and commercial spaces will be provided in a 103,005 SF parking structure.

The goal for the development is to be a low-energy building by beating Title-24 by 15%.



RESIDENTIAL | Multi Family

PLAZA APARTMENTS

San Francisco, CA

Type: Residential
Size: 143 units

Provided commissioning services for the 143-unit low-income housing apartment building located in the SOMA district of San Francisco. Verified LEED credits were met by the current design and consulted on obtaining LEED certification.

Credits being evaluated included Water Efficiency, Energy and Atmosphere, and Environmental Quality. Services included review of design documents, balancing reports, energy and water use calculations, developing the commissioning plan and reports and serving as the commissioning authority for the project to assure the systems meet the stringent requirements of LEED Silver certification.

1036 /1040 MISSION STREET HOUSING

San Francisco, CA

Type: Residential
Size: 12 stories, 125,000 SF

The family housing facility consists of a 15,200 SF site with 100 units and 120,299 SF total space consisting of retail, community spaces, 12 stories of residential units, and children's play area.



EDUCATIONAL | Higher Education

HIGHER EDUCATION

SOKA UNIVERSITY OF AMERICA

Aliso Viejo, CA

Type: Campus Expansion

Size: 200,000 SF

The firm is providing mechanical, electrical, and plumbing design services for this university campus expansion project located near Irvine, CA.

The Engineering / Science / Lab / Admin Building will be 4 stories and approximately 100,000 SF with classrooms, administrative offices, and wet and dry labs. The Resident Housing will be 4 stories and comprised of approximately 75 to 80 rooms.

Both proposed projects will be designed to accommodate a LEED Gold Building Certification, and an exterior architectural design pallet that will respect the current design features, landscaping and cultural aspects of the campus.



OHLONE COMMUNITY COLLEGE

Newark, CA

Type: New Construction

Size: 130,000 SF

The firm provided mechanical and electrical engineering master planning and full design services for the new, 130,000 gross square foot, 81-acre, multi-building campus in Newark.

Our energy efficient design included the use of solar energy with roof-mounted PowerGuard 450kW photovoltaic panels, a large geothermal loop system for heating and air conditioning, highly efficient plumbing fixtures and an enthalpy wheel heat/energy recovery system. The MEP systems alone were responsible for 33 of the 55 of the LEED points attained to achieve a LEED-NC Platinum certification for this project (the first LEED Platinum Community College in the country). The systems will help to save more than \$2.6M in operating expenses over the next 25 years.

- *Building Design and Construction Magazine*
2009 Gold Team of the Year Award
Health Science and Technology Center
- *CCC/IOU Partnership's Community College*
Sustainability Best Practices Award
Overall Sustainable Design Category of New
Construction and Major Rehabilitation
- *Community College Facility Coalition (CCFC),*
Design Award of Merit, August 1, 2008
- *Silicon Valley/San Jose Business Journal*
Structures, Best Green Project, October 1, 2008
- *US Environment Protection Agency (EPA), Environmental*
Awards, Environmental Hero, February 1, 2008
- *California Construction Magazine*
Best of 2008 Awards Program
Winner, Green Building Category



COLLEGE OF MARIN

Kentfield and Indian Valley, CA

Type: New Construction, Additions and Modernizations

Size: 170,000+ SF

Projects:

- Physical Education Building Remodel (Kentfield) – 44,000 SF
- Science/Math/Central Plant Complex (Kentfield) - 60,000 SF
- Transportation Technology Complex (IVC) – 10,000 SF
- Main Building Complex (IVC) – 36,000 SF
- Campus Master Planning for Kentfield and Indian Valley Campuses

The firm was selected to provide all up-front engineering services relating to all planned bond projects including the master planning, district-wide energy modeling, district-wide mechanical, electrical and plumbing facility assessments and design standards for the District with projects totaling over 170,000 SF.

We provided engineering design services and design and construction administration for the renovation of the Diamond P.E. existing complex. The project included new HVAC and electrical distribution. An energy management control system (EMCS) links directly to the new central campus EMCS system on the central part of the Kentfield campus. The project also includes a photovoltaic system which will either provide electrical for distribution in the building or supplemental hot water for the swimming pool.

The Science/Math/Central Plant on the Kentfield campus includes a new energy efficient, geothermal underground / renewable energy HVAC system. The new 650-Ton, 340 vertical bore geothermal system provides heating and cooling via ground coupled water source heat pumps to the new Complex and Fine Arts buildings as well as two campus pools. The field was designed and phased for future expansion to support the entire Kentfield campus.

The Transportation Technology facility on the Indian Valley campus required the total renovation of 10,000 SF which includes automobile technology repair facilities and instructional offices. The facility includes a radiant floor heating system and a solar thermal system to provide domestic hot water. In addition, the firm is working with the Kentfield campus on the Larkspur Annex to upgrade the electrical services and distribution to create a staging area for future campus construction.



STANFORD UNIVERSITY, CLARK CENTER

Palo Alto, CA

Type: New Construction

Size: 200,000 SF

Projects: R&D, Biotech Facility, Office and Administrative Space

This award-winning project is a multi-story building on the Stanford University campus dedicated to biotechnology research and development. It is a state-of-the-art facility designed to bring together researchers of different disciplines in order to foster new ideas as opposed to the process of traditional research facilities.

The firm is responsible for the design of the mechanical systems, and peer review of the plumbing/process piping systems.



CITY COLLEGE OF SAN FRANCISCO

San Francisco, CA

Type: New Construction

Size: 537,000 SF

The firm provided master planning and infrastructure design services for the City College of San Francisco's new Ocean Avenue campus. The campus will house eight new buildings including a performing arts center, advanced technology building, joint use facility, central plant (part of joint use building), classroom building, dormitory, and bookstore totaling 437,000 SF.

The College's project goals included the buildings be designed and certified to a minimum LEED Silver rating. We also provided MEP, and sustainable design for the AIA Award Winning, new performing arts complex spanning 100,000 SF. Targeting LEED Silver.

Green Features:

Radiant Heating & Cooling

Green Roofs

Natural Ventilation

Photovoltaics



UNIVERSITY OF CALIFORNIA, DAVIS GRADUATE SCHOOL OF MANAGEMENT

Davis, CA

Type: New Construction

Size: 83,000 SF

This 83,000 SF complex houses the UC Davis Conference Center and Maurice J. Gallagher Jr. Hall, home of the UC Davis Graduate School of Management (GSM). The first LEED Platinum-certified MBA facility in California, the GSM offices comprise three stories and the two-story conference center includes a restaurant, office space, meeting rooms, and a one-story ballroom. It also includes a geothermal system.



PERFORMING ARTS | SPECIAL PROJECTS

PERFORMING ARTS | SPECIAL PROJECTS

TOBIN PERFORMING ARTS CENTER

San Antonio, TX

Type: Performing Arts Center

Size: 1,759 seats

The Tobin Center is a feature in reusing a historic building into a state of the art and sustainable facility for the performing arts. With a unique “flat floor” capability, the 1,759-seat H-E-B Performance Hall can quickly transform into multiple configurations for banquets, cabaret seating and special events. The 250-seat Studio Theater has equally flexible space and the 600-seat River Walk Plaza adds even more performance space.



PERFORMING ARTS | SPECIAL PROJECTS

WALLIS ANNEBERG PERFORMING ARTS CENTER

Burbank, CA *

Type: Administrative Offices and Theater

Size: 38,000 SF

The Wallis Annenberg Center for the Performing Arts in the heart of Beverly Hills is a new cultural facility that preserves and adapts the landmark 1933 Post Office to include an adjacent new 500-seat state-of-the-art theater.

Three classrooms, a 150-seat flexible studio space, a donor lounge, production support services and administrative offices have been created within the historic building itself. The electrical infrastructure and all mechanical systems of the 38,000 SF original Post Office required complete reworking and inherent challenges with a historic building renovation and preservation arose as the lobby and façade could not be altered whatsoever.

Adjoining the landmark building, the new 500-seat, state-of-the-art Goldsmith Theater is the genesis of previous unsuccessful attempts to house the theatre within the historic structure. We carefully coordinated design and implementation of the Goldsmith Theatre's MEP systems with the acoustician and lighting designer while staying open to the Annenberg Trust's evolving needs, a complex and involved process.



* Completed by AlfaTech principal during previous employment

CITY COLLEGE OF SAN FRANCISCO – PERFORMING ARTS CENTER

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BENTLY HERITAGE DISTILLERY - MILL BUILDING

Minden, NV

Type: Whiskey Distillery

Size: 3-stories

Bently Heritage Distillery will develop the Old Mill District, in the town of Minden, in Carson Valley, NV, into a state-of-the-art distillery for high grade Whisky, Vodka, Gin and Absinthe. The design intent is to convert the Old Mill District into a functional distillery, tourist and educational attraction with global sustainability recognition.

The distillery project consists of two buildings serving the production of spirits: the Mill building and the Creamery Building.

The Mill Building will serve as the main production facility for fine whiskey. The structure was built in 1908 and consists of four, 24 feet in diameter and 50 feet high steel plate silos as well as a 45 feet high (3 stories + loft & low basement) unreinforced brick masonry structure with an approximate area of 14,700 SF. The interior of the brick structure is framed with heavy timber.

The silos will contain the distilling equipment for the production of fine whiskey. The first floor of the three distilling silos will be conjoined by removing portions of the skin of each silo. Distilling equipment will be arranged vertically throughout the silos to enable a gravity fed distilling process. The brick structure will contain the balance of the program elements including tasting room both private and public, and retail spaces. Portions of the existing floors will be removed to create multiple height spaces.



PUBLIC | CIVIC | TRANSPORTATION

LEGION OF HONOR

San Francisco, CA

Type: Museum, Administrative Office

Size: 84,000 SF

A 1925 masonry 84,000 SF art museum. The firm provided complete mechanical and electrical seismic renovation of 74,000 SF building housing art galleries, office space and a theater, and the mechanical, electrical, fire protection design of a new 38,000 SF exhibit space to house art galleries, art storage and new loading dock. Remodel work includes new kitchen and dining areas.

Critical systems include humidity and temperature to preserve the priceless artwork, and maintaining architectural features of building while completely replacing HVAC systems. In addition, a smoke evacuation system was designed as an alternative to fire doors separating the two buildings.



MASTER PLANNING INTERNATIONAL TERMINAL,
SAN FRANCISCO INTERNATIONAL AIRPORT (SFO)
San Francisco, CA

Type: Master plan

Conceptual design and master planning for the addition of the new international terminal to the San Francisco International Airport. It is the largest international terminal in North America, and is the largest building in the world built on base isolators to protect against earthquakes. The terminal has numerous passenger amenities, including a wide range of food and drink establishments, shopping, baggage storage, public showers, and a medical clinic.



BERKELEY YMCA-PG&E TEEN CENTER

Berkeley, CA

Type: Community Center
Size: 3-stories

The new YMCA – PG&E Teen Center in downtown Berkeley reuses the shell of a bill collection center from 1964. The new three-story Teen Center is a vibrant space featuring a rooftop deck and is a great resource for the local youth.



BIBLIOTECA LATINOAMERICANA YOUTH CENTER

San Jose, CA

Type: Library, Community Center, Gymnasium
Size: 35,000 SF

AlfaTech provided engineering design services for the new Biblioteca Latinoamericana Youth Center (Washington Youth Center). This San Jose Redevelopment Agency community center project included a new 16,000 SF library and 19,000 SF new Community Youth Center with gymnasium.



ROHNERT PARK CITY HALL – LEED GOLD

Rohnert Park, CA

Type: City Hall building

Size: 16,000 SF

Mechanical, plumbing, electrical, and technology engineering services for the renovation of the existing two-story city hall building and an addition of a single story building, with a total square footage of 16,000, located in Rohnert Park, California. A major role in achieving LEED credits for this project was storm water and site pollution control and management.



YOUNTVILLE COMMUNITY CENTER

Yountville, CA

Type: Community Center

Size: 2.5-acre site

Located on a 2.5-acre site on Yountville's main street, the town center consists of a new 10,000 SF community center, the renovated 4,800 SF community hall, and the addition of a sheriff's substation to the adjacent post office. The new community center houses a branch library, multipurpose room, teen center, and meeting and program spaces. It opens onto a new town square framed by the existing community hall and the post office.



MASTER PLANNING

CANDLESTICK POINT

San Francisco, CA

Type: Master Plan

Size: 38 acres

Lennar Development is working with AlfaTech to create a 500,000 SF urban outlet at Candlestick Point as a jumpstart to the overall development and revitalization of the area.

This new community will include 16 blocks of amenities including retail, entertainment options, 9 acres of parks, educational facilities and offices, as well as 478 affordable homes and 755 market-rate homes.



THE HUNTER'S POINT SHIPYARD

San Francisco, CA

Type: Master Plan

Size: 500 acres

Lennar Development chose AlfaTech as their MEP design engineering firm for the development of the historic Hunters Point Shipyard/Bayview Hunters Point neighborhood. This 500-acre site will be transformed to a fully sustainable mixed-use development over the next three years, consisting of 3.5 million SF of mixed-use development, and 750,000 SF of commercial space.

Residences consist of two separate developments—Merchant and Olympia—which are designed as 1, 2 and 3-bedroom high end units with eight separate floorplans all with expansive windows, airy common spaces and courtyards. Merchant consists of 40 units, and Olympia consists of 25 townhomes. Sizes range from 950 to 1,500 square feet.



TREASURE ISLAND / YERBA BUENA ISLAND

San Francisco, CA

Type: Master Plan

Size: 465 acres

The Treasure Island Development is mixed-use community that encompasses a wide range of projects including 8,000 residential units, commercial, hospitality, community, ferry terminal, and parks.

The 465-acre site is a former naval base that will require extensive improvements to make the land suitable for the development.



ADVANCED TECHNOLOGY

LOCKHEED MARTIN MISSILES & SPACE

Sunnyvale, CA

Type: Various

Size: Over 1,000,000 SF

Projects:

- B178 (Maintenance Facility)
- B578 (Model Shop)
- B182 (CRAD Office/Manufacturing)
- B576 (Motion Simulator)
- B562 (High Bay Access)
- B577 and 582 (Publication and Anti-sub Warfare)
- B152 (Clean Room)
- B153 (Utilities Upgrade)
- B156F (Hubble Telescope Clean Room)
- B176 (Chemical Storage Facility Consolidation & Renovations)
- B156A (Critical Power Upgrade)
- B157 (Computer Lab and Testing Relocation)
- B152 (ECG/WELD Manufacturing)

For more than ten years, Lockheed has chosen AlfaTech as the prime design and construction consultant to work on a multitude of high technology projects at their Sunnyvale campus. Most projects entailed the programming, planning design and construction management for clean room facilities existing on this nationally prominent Lockheed site. Numerous projects entailed the upgrading of existing clean space to higher cleanliness levels in support of this companies missile system production. Significant challenges were presented in these typically "high bay" buildings.



CISCO SYSTEMS

San Jose, CA

Type: Rack Lab

Size: 10,000 SF

AlfaTech provided mechanical, plumbing, fire protection, and electrical engineering services for the expansion of the rack lab in Cisco Building 16 for SPRTG, affecting approximately 10,000 square feet. The scope of work included adding new lab electrical systems (transformers fed from the existing building electrical service) and chilled water distribution and CRAH units (fed from the existing chilled water system). In order to facilitate the additional space required, large conference room resources were relocated from the 1st floor to the 3rd floor under a separate design-build contract. In addition to the MEP design effort, AT coordinated and updated the lab rack layouts for approval by Cisco. The typical SPRTG lab rack requires 6 to 15 kW per rack. Also included in the scope of work were alterations to the rack layouts (related to new cabinet dimensional requirements) as well as electrical modifications related to the existing power distribution to the existing first floor lab spaces.



ADVANCED TECHNOLOGY

ADVANCED MICRO DEVICES

Sunnyvale, CA

Type: Semiconductor Manufacturing

Size: Over 1,000,000 SF

Projects:

- Commons Building
- MTD Laboratory Renovations
- Building 915, Lab/Clean room
- Buildings 926, 936
- CEC and IO Laboratory
- Buildings 898, 920, 930 and 950, Offices and Labs

Over the years, AlfaTech has provided a full menu of mechanical, electrical, and plumbing services on projects ranging from Class 10-100 clean rooms, electronics labs and raised floor computer rooms to the more traditional spaces, such as offices, commons building, and support areas.

SUNPOWER CORPORATION

Richmond, CA

Type: Manufacturing, Office, RND

Size: 180,000 SF office, 65,000 SF manufacturing, 30,000 SF R&D

AT provided project management services during lease negotiation through moves for the company's expansion out of Berkeley into the Historic Ford Assembly Building in Richmond, CA. Negotiated work letter scope definition with developer's design build team. Comprehensive project management support to internal groups, formulated budgets and schedule impact scope requests as well as issued defined packages to the developer's delivery team. Oversaw and managed day-to-day construction activities and ensured proper accounting and delivery of the space as needed. Completed move in to the facility on schedule and on budget.



ALFATECH

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