

TRIANGLE ENGINEERING

DUKE CRESTFIELD, P.E.
PRINCIPAL

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RESUME DUKE CRESTFIELD

I have thirty years of broad-based design and construction experience, including historic preservation, renovations of occupied buildings, new residential buildings, development of small performance spaces, green design, and accessibility design.

Specialties include:

- ◆ General renovation and alterations.
- ◆ Seismic upgrades of unreinforced masonry, non-ductile concrete, and infill frame buildings.
- ◆ Wood frame remodeling and new construction.
- ◆ Passive Energy Dissipation Systems for enhanced seismic performance.
- ◆ Affordable and special needs housing.

EDUCATION:

Bachelors of Science in Civil Engineering
Stanford University

MEMBERSHIPS:

American Society of Civil Engineers
Structural Engineers Association of Northern California
(former chair, Unreinforced Masonry Buildings Subcommittee)
Earthquake Engineering Research Institute
Construction Specifications Institute
Applied Technology Council
International Conference of Building Officials
California Contractor's License (inactive)
AASCEND (Autism Aspergers's Syndrome Coalition Education
Networking Development)

EXPERIENCE

1993-PRESENT

PRINCIPAL

Triangle Engineering

Specializing in seismic upgrades, general renovation, new wood frame construction, feasibility studies, inspection, and reviews.

1989-1993

SENIOR ENGINEER

Culley Associates Inc

Designed and managed many projects, predominately seismic upgrades. Projects also included additions and alterations to existing buildings, seismic studies, and peer reviews. Developed construction details particularly suited for contractor ease of installation, and minimization of tenant disruption. Developed efficient techniques for design and production of construction documents using computerized analysis and drafting. Set the in-house standards for calculation preparation, internal peer review, Computer Aided Design drafting, and incorporation of new research into design procedures, ahead of Code standards.

1988-1989

HOUSING DEVELOPER

Tenderloin Neighborhood Development Corporation

Managed all aspects of housing development, with an emphasis on rehabilitation of existing buildings. Experience also included site programming, feasibility, acquisition, social service program coordination, and tenant relocation during phased construction. Developed parts of the Unreinforced Masonry Building upgrade ordinance, with particular concern for its impact on low-income housing. Worked under the Mayor's Office of Housing following the Loma Prieta earthquake organizing and managing the project to merge the Building Department damage database with the Assessor's Office records to determine patterns of housing and business displacement, and also conducting field damage assessments of buildings in the Tenderloin.

1984-1988

CONSTRUCTION MANAGER

Mission Housing Development Corporation

Construction specialist for rehabilitation, new construction, and client loan programs. Prepared site analyses, preliminary designs, accessibility access design, feasibility studies, grant applications, and developed facilities for social service organizations.

1983-1984

DEVELOPER/BUILDER

Central-Page Limited Equity Housing Cooperative

Developed San Francisco's first tenant converted Limited Equity Housing Cooperative. Conducted major rehabilitation of the building as project manager and working foreman.

1980-1984

OWNER

Synergy Building Systems

Repair and alteration of building systems in large residential buildings, predominately in the Tenderloin district. Work consisted primarily of plumbing, heating, electrical, and elevator systems. Also included general rehabilitation of commercial and residential properties.

Most of the work was with Hank Wilson, in a pioneering project that provided on-site access to social services and health services, along with support and harm reduction.

**SELECTED
PROJECTS:
MULTI-UNIT
RESIDENTIAL
NON-PROFIT
CLIENTS**

Name, construction type, other information

Fong Building (UMB, Seismic)
1160 Grant (UMB, Seismic)
864 Eddy Street (UMB, Seismic)
661 Clay (UMB, Seismic)
Cadillac Hotel (Historic, UMB, Seismic, Occupied)
Arlington Hotel (UMB, Seismic, Occupied)
Don Hotel, Richmond (Historic, Concrete, Seismic, Veneer)
375 Eddy St (Brick Infill, Seismic, Occupied)
340 Eddy Street (UMB, Seismic, Handicapped))
523 Grant (UMB, Seismic, Handicapped, Occupied)
Civic Center Residence (Concrete, Seismic, Occupied)
Stark Hotel, Berkeley (UMB, Seismic)
Madison Park Apts, Oakland (Historic, Woodframe, Handicapped,
Veneer)
Woodward Gardens Hotel (Woodframe, Seismic, Handicapped)
Klimm Apartments (Concrete, Occupied)
William Penn (Sidewalk, UMB)
Franciscan Towers (Concrete, Seismic, Occupied)
Aarti Hotel (UMB, Seismic)
Lyric Hotel (Concrete, Seismic)
Harrison Hotel (Infill Frame, Seismic)
Chateau Agape (Woodframe, Fire reconstruction)
250 & 260 McAllister (Concrete, Seismic)
Parkview Hotel (Historic, Woodframe, Seismic, Handicapped)
Madrid Hotel (Historic, Woodframe, Seismic)
Dunleavy Plaza (New Woodframe)
Maria Alicia Apts (New Woodframe)
398 Haight St (Woodframe)
220 Pierce St (Woodframe)
Central-Page Limited Equity Housing Coop (Hist, Wood, Seismic)
Chemical Awareness & Treatment Svcs 11th Ave (Woodframe, Seismic)
407 Monterey (Woodframe)

**OTHER
PROJECTS:
UMB & HISTORIC**

701 Minnesota (Historic, UMB, Seismic)
1901 California Co-op (UMB, Seismic, Veneer)
1479 Folsom St (UMB, Seismic, Handicapped)
University Theater
989 Market (Historic, Brick Infill, Seismic)
One Jackson Place (Historic, UMB, Seismic, Occupied)
611 Second St (Historic, UMB, Seismic)
Bank of Pinole, Pinole (Historic, UMB, Seismic)
Old Time Realty (UMB, Seismic)
Real Time Video (UMB, Seismic)
2222 Polk St (UMB, Seismic)
Poly High Gyms (Historic, Concrete, Seismic)
Martinez City Hall (Historic, Woodframe, Seismic, Handicapped, Veneer)
432-A Harrison Street
601 San Mateo, San Bruno (UMB, Seismic)

**OTHER PROJECTS
NON-PROFIT**

Women's Alcoholism Center (Woodframe, Handicapped)
Red Vic Theater (Woodframe, Seismic)
EXITheatre (UMB)
EXITheatre Annex
930 Gough (Concrete, Seismic)

**MULTI-UNIT
RESIDENTIAL
OTHER CLIENTS**

Rising Apartments (Woodframe)
2217 Mission St (Woodframe, Seismic, Handicapped, Occupied)
Ambassador Hotel (UMB)
Hacienda Hotel (Concrete)
Franklin/Fell Apartments (New Woodframe)

**PERFORMANCE
RELATED SPACE**

Valencia Rose (Woodframe, Handicapped)
New College theater (Feasibility)
Sacred Heart theater (Feasibility)
Josie's Cabaret (Woodframe, Handicapped)
EXITheatre (UMB)
EXITheatre Annex
Red Vic Theater (Woodframe, Seismic)
Poly High Gyms (Historic, Concrete, Seismic)
Gilman Street Project
Epicenter Zone
Project Artaud
509 Cultural Center
848 Community Space
CELLspace

LIVE-WORK

540 Alabama (tenant lofts)
1479 Folsom St (UMB, Seismic, Handicapped)
Valencia Rose (Woodframe, Handicapped)
164 Shipley
666 Illinois
848 Community Space
The Clocktower (tenant alteration)
848 8th Street
The Farm
Project Artaud
2700 19th Street
100 Capp Street

**OTHER UMB
PROJECTS**

333 Sacramento (Concrete, Seismic, Handicapped, Occupied)
260 Fifth St (Concrete, Seismic, Handicapped, Occupied)
Crate & Barrel, Walnut Creek (Concrete, Seismic)
260 Duncan (Woodframe, seismic)
533 Tamalpais (Woodframe, seismic)
154 Eighth Street (Concrete, Fire reconstruction)
1420 Shrader (Woodframe, Seismic)
1620 Medau (Woodframe, Seismic)