



DIRECT DIGITAL CONTROL SYSTEM PROJECTS

Project	Year	Type	Controls Vendor	Our Role	Description
SYMANTEC HQ Culver City, CA	2006	New	Automated Logic	Design and Commissioning	Design, optimization, and commissioning of EMCS for a 550,000 ft ² campus including all-variable speed chiller plant and underfloor air conditioning.
BARCLAYS GLOBAL HEADQUARTERS San Francisco, CA	2006	New	Invensys	Design and Commissioning	Design and commissioning of EMCS for a 250,000 ft ² office building and data center
ALAMEDA JUVENILE JUSTICE CENTER Hayward, CA	2006	New	Delta	Design and Commissioning	Design and commissioning of EMCS for a jail, courtrooms, offices served by variable primary flow chilled water plant
BERKELEY COMMUNITY COLLEGE Berkeley, CA	2005	New	Delta	Design and Commissioning	Design and commissioning of EMCS for a 160,000 ft ² college classroom and laboratory building, including variable flow lab hoods
STATE OF CALIFORNIA CENTRAL PLANT Sacramento, CA	2005	Retrofit	Tridium, Barber Coleman, Robertshaw	Design and Commissioning	Design and procurement plan of upgraded central plant control system plus integration plan for 23 State of California Buildings connected to the plant.
GROWER'S SQUARE Walnut Creek, CA	2005	Retrofit	Barrington to Automated Logic	Design and Commissioning	Design and commissioning of a new control system for this 200,000 ft ² office complex.
CENSUS BUREAU HEADQUARTERS Suitland, MD	2004	New	Automated Logic	Design	Design of EMCS system for 1.6 million ft ² headquarters building that includes central chiller plants with six chillers and boilers, underfloor air conditioning system, and data center.
SAN FRANCISCO STATE UNIVERSITY San Francisco, CA	2004	Retrofit	Alerton/ Automated Logic	Design	Design of new DDC controls to replace existing outdated DDC and pneumatic control systems for multiple buildings on campus totaling 1 million ft ² . Developed model specifications for future control system expansion.



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ORACLE CORPORATION'S HEADQUARTERS Redwood Shores, CA	2004	Retrofit	Invensys, Trane and Robertshaw	Control Integration, Upgrade and Commissioning	Design and commissioning of a new web-based front end and EMCS integration that serves ~ 2 million ft ² of office and data center space.
KECK LABORATORY STANFORD UNIVERSITY Stanford, CA	2003	Retrofit	Rosemount and Johnson/ NexSys	Design and Commissioning	Design and commissioning for an upgrade of an existing constant flow hybrid pneumatic/DDC control system serving a laboratory and classroom building into full DDC with variable flow.
SYMANTEC DATA CENTER Tucson, AZ	2003	New	Automated Logic	Design and Commissioning	Design and commissioning of an EMCS system for a project with a 20,000 ft ² data center.
UNIVERSITY OF CALIFORNIA AT MERCED Merced, CA	2002	New	Automated Logic	Design, Commissioning, Master Specification	Design of a Master Specification and controls procurement plan for the new UC Merced campus, including specific design of the EMCS for the classroom building, science building, library, and central chilled water and boiler plant.
PG&E BUILDING AND LAND SERVICES San Ramon, CA	2002	Retrofit	Automated Logic	Design, Commissioning and Master Specification	Design of a Master Specification for control new-construction and retrofit projects. Specific design and commissioning for the retrofit of the control systems at PG&E's San Ramon Valley Conference Center and Technological and Ecological Services Building.
100 FIRST STREET San Francisco, CA	2002	Retrofit	Alerton	Design, Commissioning	Design and specification of control system for high rise building retrofit, including detailed system commissioning.
ELECTRONIC ARTS II Redwood City, CA	2001	New	Invensys	Design and Commissioning	Design and specification of control system for large office building with underfloor air distribution system, radiantly heated atrium, and three-chiller variable flow primary chiller plant. We also served as the engineers of record and commissioning agents.



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CAPITAL AREA EAST END COMPLEX Sacramento, CA	2001	New	Invensys	Design and Commissioning	Design and specification of control system for large office building with underfloor air distribution system and three-chiller plant. Gold LEED rating. We also served as commissioning agents and developed and performed detailed commissioning tests to ensure that system was fully functional.
ALAMEDA COUNTY COURTHOUSE & ADMINISTRATION BUILDING Oakland, CA	2000 to present	Retrofit	CSI	Review and Controls Sequence Revisions	Prepared a complete list of program bug fixes and revisions designed to optimize energy performance. We have since implemented and commissioned control system upgrades for a number of projects.
THE FAIRMONT HOTEL San Francisco, CA	2000	Retrofit	Automated Logic	Design, Commissioning	Design and commissioning of controls retrofit for hotel replacing existing pneumatic control system
THE GAP BUILDING, 250 EMBARCADERO San Francisco, CA	2000	New	Siemens	Design, Commissioning	Design and specification of control system for large office building with underfloor air distribution system and unique distributed secondary pump chiller plant. Also designed the life safety system smoke control panel and control matrix.
PROMETHEUS DEVELOPMENT: <ul style="list-style-type: none"> • Cupertino City Center (Cupertino) • Atrium (San Mateo) • Civic Executive Center (Walnut Creek) 	1999	Retro-fit	Siemens	Design, Commissioning	Design and commissioning of control system for three buildings including network to tie them together.
PALO ALTO MEDICAL FACILITY Palo Alto, CA	1999	New	Automated Logic	Design, Commissioning	Design and specification of control system including detailed system commissioning.
1939 HARRISON STREET Oakland, CA	1997	Retro-fit	Trane	Design, Commissioning	Design and specification of control system including detailed system commissioning.



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601 CALIFORNIA STREET Palo Alto, CA	1998	New	Landis & Staefa	Design, Commissioning	Design and specification of control system including detailed system commissioning.
975 PAGE MILL STREET Palo Alto, CA	1998	New	Landis & Staefa	Design, Commissioning	Design and specification of control system including detailed system commissioning.
1333 BROADWAY Oakland, CA	1995	Retro-fit	Automated Logic	Design, Commissioning	Design and specification of control system including detailed system commissioning.
ATLANTA CITY DETENTION CENTER Atlanta, GA	1994	New	Landis & Staefa	Design	Design and specification of control system for high rise detention facility including design of life safety panels and smoke control matrix.
DUKE POWER ELECTRIC CENTER REMODEL Charlotte, NC	1994	Retro-fit	Johnson Controls	Commissioning	Rewrote control sequences for existing ice storage chilled water system and oversaw system commissioning
TWO LAKE POINTE OFFICE BUILDING Charlotte, NC	1993	New	Trane	Design	Designed system concept and wrote all DDC control sequences.
LANIER WORLDWIDE OFFICE BUILDING Atlanta, GA	1993	New	Landis & Gyr Powers	Design, Commissioning	Design and specification of control system including detailed system commissioning.
DRYERS GRANDE ICE CREAM HQ Oakland, CA	1991	New	Barrington Systems	Design, Commissioning	Design and specification of control system including detailed system commissioning.
RAYCHEM HQ OFFICE BUILDING Menlo Park, CA	1991	New	Barrington Systems	Design, Commissioning	Design and specification of control system including detailed system commissioning.
ST. FRANCIS MEDICAL OFFICE BUILDING San Francisco, CA	1991	New	Honeywell	Design, Commissioning	Design and specification of control system including detailed system commissioning.
475 SANSOME STREET San Francisco, CA	1991	Retro-fit	Honeywell	Design	Designed system architecture and wrote all control sequences.



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FAIRMONT HOTEL San Jose, CA	1990	New	Barrington Systems	Design	Designed all pneumatic controls, life safety interface, and wrote all DDC control sequences.
SUTTER SQUARE Concord, CA	1989	New	Landis & Gyr Powers	Design, Commissioning	Design and specification of control system including detailed system commissioning.
505 MONTGOMERY STREET San Francisco, CA	1988 1994	New	Barrington Systems	Design, Commissioning	Design, programming, and commissioning of controls for large high rise followed by control system optimization in 1994
333 BUSH STREET San Francisco, CA	1986 2000	New	Landis & Gyr Powers	Design	Design of initial concept, wrote all control sequences, and prepared life safety interface details. Also redesigned of chiller sequencing in 2000 to take advantage of retrofitted chiller variable speed drives.