

GRAND VALLEY ENGINEERING SOLUTIONS LLC

ELECTRICAL ENGINEERING/SOFTWARE

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Educational Facilities:

Educational facilities are among the more gratifying project types to work on. Because these buildings are owned by a single entity throughout their lifetimes, emphasis is placed on life cycle cost rather than simple first cost. Any improvement in energy efficiency or maintainability will be implemented so long as the payback time is reasonable. Along with the gratification however, comes the challenge of the budget. School districts are always strapped for cash, and the real challenge comes in designing durable, energy efficient electrical systems that are easily maintainable on a tight budget.



UMass Harbor Campus

Engineers are often criticized as being ‘book’ smart, but because most have never actually tried to build what they design, lacking in hands on experience. I was lucky early in my engineering career – one of



UMass Harbor Campus

my first assignments, and one that lasted 5 years, was that of an electrical field engineer. The company I was working for at the time, C. T. Main, had a major contract with the University of Massachusetts to design the infrastructure for their new Harbor Campus. C. T. Main’s electrical design responsibilities included, incoming electrical service and power distribution to the initial 8 buildings at 13,800 volts, incoming telephone service, and a telephone raceway system to the initial 8 buildings, the total design of a pump house whose function

was to reject waste heat into the ocean, the total design of a utility building whose function was to house chillers which provided cooling to the entire campus, a central computer monitoring and control system for building service equipment, and campus wide exterior lighting. As the only full time field electrical engineer, I had to interface with numerous contractors as well as the other A/E teams which had design responsibility for the eight other buildings. I spent 5 years helping to transform an abandoned dump next to the ghettos in Boston into a complete college campus and in the process observed every aspect of the electrical



CMC Glenwood Springs Dormitory

construction process.

After relocating to Grand Junction in the early 1980's I was hired as an owner's representative and worked with Lou Grasso to help with the construction of School District 51's bond issue schools. In the early 2000's I was hired as part of the A/E team which evaluated District 51's 39 structures and generated a master plan. Subsequently, my company was selected as the electrical engineer on the A/E team for the 110,000 square foot Bookcliff Middle School, as well as several other smaller projects.

My recent experience as a full time student at Colorado Mesa University (Class of 2002) has given me, as an educational facility designer, the valuable insight of a user. My Bachelor of Science degree in Computer Science has given me an understanding of the critical importance of the technology component of any educational facility.

Recent educational building projects:

- 2003 Mesa County School District #51 – Master Plan, Grand Junction, CO
- 2004 Plateau Valley School Gym/Auditorium Addition, Colbran, CO
- 2005 Bookcliff Middle School, Grand Junction, CO
- 2005 Clifton Elementary School Remodel, Clifton, CO
- 2005 Taylor Elementary School Remodel, Grand Junction, CO
- 2005 Fruita 8-9 School, Fruita, CO
- 2005 Fruitvale Elementary Remodel
- 2005 Rocky Mountain Elementary Remodel
- 2005 Gateway School Remodel
- 2005 Dual Immersion Academy, Grand Junction, CO
- 2005 Riverside School Historical Remodel, Grand Junction, CO
- 2008 Bookcliff Middle School
- 2008 Elm Hall Dormitory Remodel, Grand Junction, CO
- 2009 Mesa State College CM/ME building remodel, Grand Junction, CO
- 2009 Mesa State College Little Mavs building remodel, Grand Junction, CO
- 2010 Mesa State College North & East Malls, Grand Junction, CO
- 2011 Career Center Modular Classroom, Grand Junction, CO
- 2011 Independent Academy Modular Classroom, Grand Junction, CO

Projects completed in the 1990's:

- 1991 Aspen Middle School, Aspen, CO
- 1991 Bookcliff Middle School Remodel Phase I, Grand Junction, CO
- 1991 Cedaredge Elementary School Annex, Cedaredge, CO
- 1991 Colorado Northern Community College Maintenance Building, Rangely, CO
- 1991 Lincoln Orchard Mesa Elementary School, Grand Junction, CO
- 1991 Mesa State College Medesy Building Remodel, Grand Junction, CO
- 1991 Mesa State College Student Center Remodel, Grand Junction, CO
- 1991 Mesa State College Vo-Tech Building, Grand Junction, CO
- 1991 Redlands Middle School, Grand Junction, CO
- 1991 Tope Elementary School Addition, Grand Junction, CO
- 1992 Ah Haa School for the Arts Remodel, Telluride, CO
- 1992 Bea Underwood School Generator Retrofit – Battlement Mesa, CO
- 1992 Bookcliff Middle School Remodel Phase II Grand Junction, CO
- 1992 Colorado Northern Community College Dormitory, Rangely, CO
- 1992 Colorado Northern Community College Hill Hall Remodel, Rangely, CO
- 1992 Colorado Northern Community College Johnson Hall Remodel, Rangely, CO
- 1992 Ouray School Remodel, Ouray, CO

- 1993 Lincoln Park Elementary School, Grand Junction, CO
- 1993 Olathe School, Olathe, CO
- 1994 Cottonwood Elementary School, Montrose, CO
- 1994 Glenwood Springs High School Addition/Remodel, Glenwood Springs, CO
- 1994 Headstart Remodel – Olathe Elementary School, Olathe, CO
- 1994 Mesa State College Saunders Fieldhouse Remodel, Grand Junction, CO
- 1994 Plateau Valley School Gym Lighting Retrofit, Colbran, CO
- 1995 Lincoln Elementary School Addition, Delta, CO
- 1995 Mesa State College Modular Classroom Buildings, Grand Junction, CO
- 1995 Mesa State College Tennis Court Lighting, Grand Junction, CO
- 1995 Naturita Middle School Addition, Naturita, CO
- 1995 Plateau Valley K-12 School Addition/Remodel, Colbran, CO
- 1995 UTEC Phase II Classroom Building, Grand Junction, CO
- 1996 Central High School Classroom Building/Gym, Grand Junction, CO
- 1996 Colorado Mountain College Dormitory Buildings at Leadville, CO
- 1996 Colorado Mountain College Dormitory Buildings at Glenwood Springs, CO
- 1996 Colorado Mountain College Dormitory Buildings at Steamboat Springs, CO
- 1996 East Valley Middle School, Grand Junction, CO
- 1996 Garnet Mesa Elementary School
- 1996 Grand Junction High School Classroom Building, Grand Junction, CO
- 1996 Mesa State College Dorm/Student Center Access Control System, Grand Junction, CO
- 1996 Montrose High School Gymnasium
- 1996 Nisley Elementary School Addition, Grand Junction, CO
- 1996 Nucla Elementary School, Nucla, CO
- 1996 Orchard Mesa Middle School Addition, Grand Junction, CO
- 1996 Paonia Elementary School Addition/Remodel, Paonia, CO
- 1997 Colorado Mountain College Silverthorne Library/Classroom Building, Silverthorne, CO
- 1998 Cedaredge Elementary School Addition, Cedaredge, CO
- 1998 Crawford Elementary Addition, Crawford, CO
- 1998 Soda Creek Elementary School, Steamboat Springs, CO

Projects completed in the 1980's:

- School District #51 – Owner's Rep, School Bond Issue Construction, Grand Junction, CO

Projects completed in the 1970's:

- University of Massachusetts – Harbor Campus, Boston, MA