

BRIAN J FERRERO, P.E.

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EDUCATION

Aug 96 – May 03, University of Nevada, Reno

Bachelor of Science Electrical Engineering

Bachelor of Science Mechanical Engineering

PROFESSIONAL CERTIFICATIONS

Jan 09 **California Civil Professional Engineering license**, Board of Professional Engineers and Land Surveyors

Sep 06 **Class B General Contractor**, license number 883635, State of California, Contractors License Board

Jun 03 **Engineering Intern Certificate 0T4417**, State of Nevada, Board of Professional Engineers

EXPERIENCE

Project Manager, Jun 06 – current, Department of Defense, Beale Air Force Base, California

- As the base engineering representative, it is my duty to ensure the correct execution and completion of numerous large-scale construction and demolition projects. Specifically, it is my duty to ensure that the utmost efficient methods and courses of action are taken by both designers and contractors to decrease the total project expense while maximizing the base user's objective. Currently a clearance for a Secret classification is being conducted.

Structural Engineer, Mar 05 – Mar 06, Lincoln and Long Civil Engineering, Grass Valley, California

- Analyze, design, and modify structures for vertical loading and to comply with the 1997 Uniform Building Code seismic restrictions. These structures ranged from metal bridges, wood homes and commercial concrete systems.

Project Engineer/Systems Engineer, May 04 – Sep 04, Carson Mechanical, Inc., Sacramento, California

- Performed technical planning, design, construction, systems integration, retrofit, verification and validation, supportability and effectiveness analyses for total systems of the emergency response vehicles for the International Public Safety Agency. Analyses performed at all levels including: concept, fabrication, test, installation, operations and maintenance. Performed functional analysis, timeline analysis, requirements allocation and interface definition studies to translate emergency personnel requirements into hardware and software specifications. Managed team of construction and fabrication laborers to prototype vehicles and integrate equipment for mass production. (Project terminated due to indictment of directors for embezzling U.S. funds.)

Special Agent Applicant, Jun 03 – Feb 04, Federal Bureau of Investigation, Las Vegas, Nevada

- Recruited directly after graduation, this training program specialized in the preparation for the F.B.I Academy in Quantico, Virginia. Running, weight lifting, cardiovascular exercises, martial arts, and shooting practice, completed with regular studies and police, highway patrol, and other law enforcement training exercises.

Engine Management and Data Acquisition, May 02 – Aug 02, NRG Tech, Reno, Nevada

- Creation of experimental engine platforms, complex engine management, data acquisition and processing, laboratory equipment calibration and experimentation, machine work and mechanic skills, and the creation of numerous spreadsheets to solve common engineering calculations with multiple variables.

COMPUTER SKILLS

MS Office Suite, Matlab (student 5.0, student 5.3, student 6.0), Simulink (student 5.0, student 5.3, student 6.0), MathCAD, MiniTab, LabVIEW, Quicken, PSPICE, ProE (2000i²), VHDL, AutoCAD R (9, 10, 11, 12), Autodesk Map 3D, Autodesk Civil 2008, C++, Assembly, Java 2.0, MS Paint, MoTec, Enecalc.

AWARDS

- 2007 Senior Civilian of the Year from the Mission Support Group at Beale Air Force Base
- One of six California State Regional V.I.C.A. (Vocational Industrial Clubs of America) officers with specialties in: leadership, public speaking, coordinating, debate, and communication skills.
- Gold medals in Beginning Technical Machine Drafting, Combination Sketching, Board and CAD drafting. Two gold medals in Adv. Technical Machine Drafting. Seven first place awards in Technical Machine Drafting.

ACTIVITIES

Skip Barber Racing School Instructor, three years University of Nevada Reno Varsity Rifle Team, competed nationally NCAA Gold Shooting Team, Moore's Shou' Shu' Karate Instructor, green belt in Judo, Junior Olympic volleyball team.

VOLUNTEER EXPERIENCE

Trained one of our Alaskan Malamutes to become a certified patient therapy dog to visit nursing homes/hospitals.