

BRIAN J FERRERO

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EDUCATION

Aug 96 – May 03, University of Nevada, Reno

Bachelor of Science Electrical Engineering

Bachelor of Science Mechanical Engineering

PROFESSIONAL CERTIFICATION

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

EXPERIENCE

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

- Analyze, design, and test structures—metal, wood, concrete systems, engineer them for functionality, safety, and to meet county specifications according to their unique construction and environmental requirements.

General Construction Assistant, Sep 04 – Mar 05, Charles Millar, Smartville, California

- Framing, roofing, drywall, tile, electrical wiring, stone work, trim, painting, concrete, other residential construction facets.

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

- Performed technical planning, system integration, verification and validation, design, construction, retrofit, supportability and effectiveness analyses for total systems of the emergency response vehicles for the International Public Safety Agency. Analyses were performed at all levels of total system product to include: concept, design, fabrication, test, installation, operation, 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

- Training program specialized in the preparation for the F.B.I Academy in Quantico, Virginia. Running, weight, cardiovascular, martial arts training, and shooting practice, completed with regular studies, 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 Excel, MS Word, MS PowerPoint, 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), C++, Assembly, Java 2.0, MS Paint, MoTec, Enercalc.

AWARDS

- 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 and one second in Technical Machine Drafting Competition.

ACTIVITIES

Three years University of Nevada Reno Varsity Rifle Team, competed nationally NCAA Gold Shooting Team, former VP of Rifle Club, Moore's Shou' Shu' Karate Instructor, green belt in Judo, graduated first in class from the Skip Barber Racing School, Junior Olympic volleyball team.

VOLUNTEER EXPERIENCE

Trained Alaskan Malamute to become certified patient therapy dog to visit nursing homes/hospitals.