

William Johnson
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B.S. Electrical Engineering, California Polytechnic State University, San Luis Obispo, CA
A.S. Electronic Technology Engineering, Cuesta College, San Luis Obispo, CA

- July 2000 – present Santa Barbara Focalplane/Lockheed Martin Missiles and Fire Control, Goleta CA.
- Circuits Design Engineer. Enhance existing (form, fit, and function), and develop/prototype new electronics.
- To digitally communicate to and capture analog/digital video from cryo-cooled infrared imaging focalplanes.
- To digitally format compatible data to a specific host computer controlled frame-grabber, or custom capture electronics.
- Work closely with the Mechanical Engineers, Program Managers, and customers to integrate new camera dewar, chassis, and electronics into existing or new programs.
- All support electronics for specific projects (Mil-spec power supplies, fiber optic interfaces, HotLinks, etc.).
- Design with and programming using Motorola/Freescale HC microcontrollers.
- High frequency design using S-parameters and other microwave techniques.
- Have designed projects to meet designated Mil-Spec standards.
- Have strong analog noise reduction/protection design skills.
- On smaller programs, the design engineer does all of the systems engineering.
- Strong trouble shooting skills.
- Current secret security clearance.

1981 – 1990: Cardiff Stud Farms, Solvang/Paso Robles CA. Broodmare manager: supervised 15 to 20 employees, was responsible for 250 to 350 broodmares and foals. Most of the horses were valued in the five to seven figure range. Back injury in 1990 forced career change.

Relevant Skills:

Programming in C, Basic
FPGA schematic design in ViewDraw
FPGA/CPLD design using VHDL
Schematic/Layout CAD programs: Protel, P-Cad

Santa Barbara Focalplane is a small engineering house that develops and produces infrared thermal imaging detectors. It was purchased by Lockheed Martin to fill contractual needs for the F-22 Raptor, and F-35 Joint Strike Fighter programs. The majority of SBF contracts are for unique custom designs for the Military, Government Contractors, Universities, and Private Industry. SBF is the only business unit in Missiles and Fire Control that has viable commercial products. My designs are in the Airborne Laser, the Predator, the F-15, the Navy P-3 Surveillance/Anti-Submarine aircraft, and other programs that are classified, plus numerous commercial application designs.