

Resume For Gary Broxton

Education:

Mr. Broxton received a Bachelor Degree in Aeronautical Engineering in 1970 from St. Louis University

Experience: Mr. Broxton has 25 years experience in the design and development of expendable countermeasures. He was a project engineer for the NAVSURFWARCEN Crane. In that capacity he proposed, planned, developed, and tested many infrared countermeasure devices for tactical military aircraft. Later in his career he was the branch manager for the Other Gun Ammunition Branch which included ship offboard expendable countermeasures

Project Management

Mr. Broxton proposed, planned, developed, and tested many infrared countermeasure devices for tactical military aircraft. He has experience with Microsoft Project, PERT schedule, and financial management of projects ranging in value from a few hundred thousand to multi-million. Mr. Broxton lead a team of engineers and technicians to develop and test countermeasure projects

Design Engineering

Mr. Broxton was responsible for the design & development of the Navy Kinematic decoy flare, MJU-20 & MJU-29 (both round and square variants). All three designs completed successful flight tests and were extremely successful in their intended mission. He also was responsible for the development of the BOL/IR mini-cassette round. In a six month period, he took the program from an idea to a flight test. The team to conduct this development was the private contractor, Alloy Surfaces, the Naval Research Laboratory, and NAVSURFWARCEN Crane. Mr. Broxton was the overall project manager and designer for the effort. Development of the BOL/IR round was subsequently completed and the round is now in production. He also was the analysis! that determined through CM computer simulations and CM effectiveness flight tests that a two component decoy system, (kinematic & two part decoy) was needed by the Air Force ASTE program. Those decoys are in their final developmental stages and will soon be on both Air Force and Navy tactical fighters.

Fabrication

Mr. Broxton has experience in the manufacture of infrared grain, flare hardware components used in current decoys, Mr. Broxton has hands-on experience with pressing, extruding, and machining of IR grain. He has assembled decoy hardware and has experience in the machine tools required in the manufacture of metal components.

Digital Computer Simulations:

Mr. Broxton conducted 4 & 6 degree-of-freedom (DOF) computer decoy fly-out simulations (he developed his own version of a 4 DOF which was widely used in the CM community). He also ran computer missile seeker engagement simulations with seekers in the loop for the stinger-basic, Chaparral, and AIM-9L. Mr. Broxton conducted data reduction from both open-loop and closed-loop missile engagement computer simulations conducted at the White Sands Missile Range, Vulnerability Assessment Laboratory.

Program Development

Mr. Broxton was responsible, while at Crane, for proposing solutions to countermeasure problems or needs for the Naval Air Systems Command Headquarters. He planned and conducted the development projects of numerous 6.3 countermeasure solutions. He acted in the role of countermeasures expert for numerous aircraft platform developments (F/A-18 E/F, AV-8B Harrier Night Fighter, V-22, F-14, A-12, & F/A-18 C/D).

Threat Analysis

Mr. Broxton has experience analyzing the counter-countermeasure (CCM) capabilities of various blue and red missile systems. He used this knowledge of their flare rejection techniques used by these missiles to develop the performance requirements of numerous IRCM devices. Some of the missile systems with which he is familiar are the Chaparral, Stinger, SA-7, Sa-13, Sa-14, Sa-16, Sa-18, AIM-9 series and some blue foreign missiles.

Professional Associations:

Mr. Broxton is the current President of the local George Rogers dark chapter of the National Defense Industrial Association (NDIA) 30 year membership. The International Pyrotechnic Society (IPS) - membership for over 15 years

Present Situation:

In 2002, Mr. Broxton formed his own company, Radiation Effects Research Associates, Inc. and is currently under contract to the Air Force to development countermeasures to protect U.S. airliners from terrorist missile threats. Also, his company has been under contract to the Indiana University Cyclotron Facility to market their radiation testing capability to the space industry.

Personal Information

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Family: Married with 3 children

Hobbies: Fishing, golf