

JOSE ORENCH

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SUMMARY

Retired FBI Agent with 32 years of government service to include 20 with the FBI and 12 with NASA. Technical career experience in design and development of aerospace mechanical systems, materials forensics, firearms, electronic surveillance, fuel cell technology, crime scene reconstruction and aerial surveillance platforms. Management and supervision of multi-million dollar specialized work units and projects as a Unit Chief and as a Special Assistant to the Director of the FBI's Engineering Research Facility.

SKILLS

- Complex problem solving
- Research
- Engineering management
- Crime scene reconstruction
- Risk management
- Project management
- Firearms examiner
- Failure analysis

EXPERIENCE

- 10/1996 to 10/2016 Unit Chief / Program Manager / Special Assistant
FBI — Quantico, VA
- Led the design and deployment of data intercept network communications
 - Increased unit output by 1000% providing the intelligence community with actionable intelligence against terrorism targets
 - Spearheaded special projects for the FBI's Engineering Research Facility
 - Increased output of division technical requests by 100%
 - Raised the division's cyber program audit score from failing to excellent
 - Deployed to the World Trade Center to lead evidence collection and crime scene reconstruction efforts
 - Conducted crime scene reconstruction training
 - Performed firearms examinations, testing, forensics and bullet trajectory analysis
- 06/1983 to 10/1996 Lead Systems Engineer / Acting Section Chief
NASA — Kennedy Space Center, Florida
- Conducted testing and installation of aerospace components
 - Designed and developed aerospace structures and materials
 - Developed procedures for aerospace components handling
 - Designed and developed automated payload deployment devices
 - Designed automated payload installation and access systems
 - Conducted materials failure analysis
 - Provided lectures and presentations for the NASA Public Affairs Office
 - Member of Challenger and Columbia accident reconstruction teams

EDUCATION AND TRAINING

- 1996 Master of Science: Materials Science
University of Central Florida — Orlando, Florida
- 1983 Bachelor of Science: Mechanical Engineering
University of Puerto Rico — Mayaguez, Puerto Rico

ACTIVITIES AND HONORS

Member of ASM International
FBI Evidence Response Team Certification
FBI Technically Trained Agent Certification
CompTIA A+ Certification
State of Texas Hazardous Materials First Responder Course
NASA Aircraft Accident Investigation Certification

PUBLICATIONS

- Technical Reports:
- Orench, J. A. A validation study of fracture matching metal specimens failed in tension, AFTE Journal (2005) 37:142-149.
 - Orench, J. (1996) A mechanism of pinhole formation in the reinforced carbon-carbon thermal protection system of the space shuttle orbiter. Master's Thesis. College of Mechanical Engineering, University of Central Florida.