

# John Calladine

## Sr. Systems Engineer

Warminster, PA - Email me on Indeed: [indeed.com/r/John-Calladine/f46dcdf333bd62a6](https://www.indeed.com/r/John-Calladine/f46dcdf333bd62a6)

Sr. Electrical Engineer experienced in system design, project management and new product development program schedules and budgets; Strong problem solving, planning, organization skills; Management experience, Expertise in ITAR import and export issues technical surveillance systems, domestic and international from design thru production; Held Department of Defense Secret Clearance and Department of Justice Law Enforcement Security Clearance.

### WORK EXPERIENCE

#### Sr. Systems Engineer

DRS C3 & AVIATION COMPANY - Horsham, PA - 1996 to 2011

Developed system architecture and design from inception through production; Capture and analyze system level requirements; decompose verifiable systems requirements, system descriptions (concept, design, test and installation). Directed technical projects; Collaborated on requirement strategies; and design and integration issues; Conducted risk analysis; Interface with subcontractors, US Government customer and the end user.

- Developed a cost effective mobile ground and coastal border surveillance systems that exceeded the customers' requirements.
- Generated a Subsystem Specification document and Statement of Work for a dipping sonar shipboard power inverter; delivered within budget and condensed schedule.
- Specified the architectural design for a sensor system, consisting of optics, radar and ground sensors, used to detect intruders and smugglers crossing the border of a middle-eastern country.

#### Project Engineer

Define baseline program schedule and budget; Provide technical support; Interface with internal cross functional departments, subcontractors, U.S. government and end customer.

- Supported an improve Homeland Defense surveillance System that increased detection of illegal aliens.
- Developed and implemented a Sensor Control Situation Awareness IRAD Prototype program while maintaining program schedule and within budget; resulting in the baseline for the middle-eastern Border Surveillance Program sensor subsystem.
- Collaborated internal and external development teams to develop the core infrastructure used in the proposed Border Security systems.
- Developed and demonstration a border surveillance system to the U.S. government resulting in a \$50 million contract to DRS.

#### Sr. Electrical Engineer

Development of new product communications equipment for military applications; consisting of Processor and DSP based design & architecture, High speed serial interfaces, FPGA design and simulation. The product development life cycle is defined as definition through environmental and electrical testing in manufacturing. Modems and TDMs contained Altera and Xinx FPGAs, 6800 family Microprocessors and Texas Instrument TMS320/ Motorola 56000 family DSPs.

- Designed High Speed Serial Tone Modem and Time Division Multiplexers used on U.S. and NATO ships for daily ship to shore communications. Designed Tactical Link-11 modems and Data Terminals deployed on government secure communications networks. The Data Terminals contained Motorola 68000 processors.
- Developed high speed Anti-Jam Modems resulting in a significant contract with Rockwell Collins

Held various Electrical Engineering positions in the following companies:

Leads and Northrup Co., Lansdale, PA,  
Jerrold Corp. Horsham, PA.

## EDUCATION

### **MS in Electrical Engineering**

Drexel University - Philadelphia, PA

### **BS in Electrical Engineering**

Drexel University - Philadelphia, PA