



## SENIOR SYSTEMS ARCHITECT ENGINEER

### Corporate Description

MANNARINO Systems & Software Inc. is a leader in COTS software products and providing safety-critical systems/software/programmable hardware engineering and certification services to the aerospace, defense, space, simulation, rail & power generation industries. We work with many of the top players within their industries giving our employees exposure to the most interesting and challenging development projects. This stimulating and invigorating working environment allows our team to be at the technological forefront constantly broadening their expertise and honing their skillset to fulfill the ever-growing global high-tech market needs.

The MANNARINO culture is focused on high quality, hard work, professionalism and team work within a highly respectful, motivating atmosphere geared towards long-term business growth.

As a member of our team, you will benefit from:

- a comprehensive group insurance and RRSP plan
- a flextime policy with paid overtime
- discretionary bonuses
- a fitness reimbursement program
- other office perks such as catered weekly lunches and free hot beverages (espresso, coffee, hot chocolate and tea)
- regular company outings

MANNARINO is a privately-held Small & Medium Size Enterprise (SME) and was recently awarded the [AIAC's Innovation Technology Award](#)

### Primary Roles / Responsibilities

We're looking for an outstanding Sr. Systems Architect Engineer who combines superb technical, research and analytical capabilities with a demonstrated ability to get the right things done quickly and effectively. This person must be comfortable working with a team of top-notch developers and collaborating with our research teams. The individual will be interfacing with the software teams regularly and less so with the hardware design teams.

### Required Skills and Experience

- Bachelor's of Science Degree in Electrical Engineering or related field and 10+ years of relevant work experience
- Strong Mathematical/Statistical/Physics fundamentals
- Experience in analog, digital, and high-speed circuit design
- FPGA experience with VHDL or Verilog
- Proficiency in firmware development/programming languages
- Expert with industry standard PCB design tools
- Experience in DO-160, DO-178, and DO-254
- Ability to interface with software development teams.
- Experience in communicating with end users, business teams and management to collect requirements, describe product features and refine technical designs.
- Experience as a technical lead designing hardware systems/products that have been deployed to customers at scale.
- Experience leading architecture definition for new technology platforms.

## Assets

- Master of Science or PhD in Electrical Engineering or related field
- Experience as a technical lead managing small teams of engineers; ability to mentor and guide junior engineers
- Excellent written and verbal communication; ability to explain complex concepts and designs to colleagues across disciplines
- Experience designing avionics systems that have been successfully deployed at scale
- Excellent end-to-end system debug skills; ability to operate a broad range of electronic test equipment
- Experience working/partnering with mechanical engineers to design aerospace/avionics enclosures

## Miscellaneous Requirements

- Ability to communicate effectively in English (oral and written)
- Ability to travel as required
- Must be eligible to work in Canada

At Mannarino, we believe that passion and a desire to learn is crucial. Diversity of thought and experiences leads to innovative solutions and creativity. This is why we would like to encourage all those interested to apply.

**Please submit your application by  
E-mail [rh@mss.ca](mailto:rh@mss.ca)**

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*We are an equal opportunity employer.  
All applicants will be held in strictest confidence.  
Only those selected for interview will be contacted.*

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