



## EMBEDDED APPLICATION SOFTWARE DEVELOPER - SENIOR

### Corporate Description

MANNARINO Systems & Software Inc. holds over 20 years experience in designing, developing, verifying and certifying real-time embedded software for safety critical applications, thanks to a unique combination of services and COTS products.

MANNARINO Systems & Software Inc. customer base is very large, covering traditional aerospace companies as well as new and exciting markets, including electric propulsion, Urban Air Mobility, Unmanned Aerial Vehicle and autonomous flight.

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](#)

### Career Opportunity and Primary Roles / Responsibilities

- Work with System Engineers, Low Level Embedded Software Developer and MANNARINO customers to specify and design embedded applications.
- Develop robust, reliable, efficient embedded software in compliance to the system requirements (control loop, health management....) in a realtime safety critical context
- Develop software documentation in accordance with the project certification requirements/guidelines
- Support the software verification effort

The position is based in Montreal, CANADA.

### **Required Competencies**

- Bachelor's degree in computer science or engineering.
- More than 10 years of demonstrated experience in the following areas:
- Embedded software development in C/C++ language
  - Hands-on development and troubleshooting on embedded targets
  - Embedded systems design with real-time schedulers
  - Software development in a safety critical context (RTCA DO-178, EN 50128, IEC 62304.....)

### **Other Desired Competencies**

- Experience with scripting languages (Python preferred)
- Experience in continuous integration and continuous testing processes
- Experience with Lauterbach development tools
- Knowledge of aerospace standards (ex, ARINC 664, ARINC 429, ARINC 825, ARINC 653...)
- Knowledge of control system design
- Knowledge of additional high-level programming languages (ex: ADA)
- Experience with modern C++ Object Oriented programming (C++ 17)
- Experience with engine control (gas turbine, DC Motor...)

### **Miscellaneous Requirements**

- Must be able to communicate effectively in English
- Occasional travel required to customer sites (usually within North America)
- Possibility of assignment to customer site within the Montreal area
- 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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