



## EMBEDDED APPLICATION SOFTWARE DEVELOPER - INTERMEDIATE

### 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 teamwork 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, etc.) in a real time safety critical context
- Develop software documentation in accordance with the project certification requirements/guidelines
- Support the software verification effort.

**Required Competencies**

- Bachelor's degree in computer science or engineering.

**More than 5 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, etc.)

**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, etc.)
- 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, etc.)

At MANNARINO, we believe that passion and a desire to learn is crucial. Diversity of thought and experiences leads to innovative solutions and creativity. Therefore, 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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