



EMBEDDED LOW LEVEL 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 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, Embedded Application Software developers and MANNARINO customers to specify and design board support packages and M-RTOS product evolutions (including porting to new processor architectures)
- Integrate software onto partners/customers proprietary boards
- Develop robust, reliable, efficient, and testable low-level software interfacing with sensors, actuators and other peripherals
- 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, Software, Embedded Systems or similar area with software focus.

More than 5 years of demonstrated experience in the following areas:

- Embedded software development in C language
- Real-time operating systems, processor architectures, communication protocols, device drivers, communication buses...
- Software development in a safety critical context (RTCA DO-178, EN 50128, IEC 62304.....)
- Knowledge of standard interfaces and interactions between low-level software and hardware blocks (CPU cores, DSPs, special-purpose accelerators, on-chip peripherals, etc.).

Other Desired Competencies

- Experience with scripting languages (Python preferred)
- Experience in continuous integration and continuous testing processes
- Experience with Lauterbach development tools
- Experience with PCIe
- Knowledge of ARINC 653
- Experience with ST32 or QorIQ processor families
- Experience with Ethernet stack development
- Experience with Network Interface Cards drivers development
- Experience with ARINC429 adapter drivers development
- Experience with CAN Bus drivers development

Miscellaneous Requirements

- Must be able to communicate effectively in French and 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**

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