



## **Embedded Linux Developer**

**Toronto, ON**

### **About Northern Light Technologies (NLT)**

NLT is a turn-key partner in the design, manufacture, deployment, and support of scalable communication technologies that is changing the way mines and tunnels communicate, collaborate, and operate.

### **POSITION SUMMARY**

NL Technologies (NLT) is seeking an Embedded Software Developer to design and test for our wireless network and miners' cap lamp products for industrial environments. The ideal candidate will be familiar with designs with microcontrollers, sensor interfaces and battery management.

The incumbent must be willing to work in a multi-disciplinary environment and exhibit strong technical skills and self-motivation. Excellent communication, time management, and ability to multi-task on various projects will be critical. You will have the opportunity to work with leading edge technology and help influence the next generation of IoT products for NLT. You will have a passion for wireless communication systems and embedded design in general.

### **SKILLS REQUIREMENTS**

**A minimum of 5 years' experience in the following:**

- Programming language skills should include mastery of C
- Experience in programming 8/16/32 bit microprocessors/Microcontrollers such as PIC, ARM, Freescale, Zilog, TI
- Experience designing for low power applications
- Deep understanding of building communication protocols
- Knowledge of GPIO, I2C, RS232, RS485, SPI, USB
- Wireless skills include 802.11a/b/g/n/ac, Bluetooth, Zigbee, including MESH networking protocols
- Network skills include knowledge of protocols such as Ethernet, TCP/IP
- Strong hands on skills





- Able to read electronic schematics and PCB layouts
- Experience with ADC, DAC and sensors (ie accelerometers, temperature and humidity sensors)
- Experience with integrating radio modules
- Candidate must be a true hands-on system architect: should be able to do detailed analysis, including feasibility studies, performance analysis, and prototyping, write detailed and accurate specifications, and is comfortable analyzing the specifications of others.
- Source code control management using GIT

## QUALIFICATIONS

- Bachelor's degree in Electrical Engineering, Computer Engineering or Computer Science
- Excellent written and oral communication skills.
- A valid passport and be available for occasional international travel as required.

## Additional Skills preferred

- Hardware design experience
- Knowledge of Real Time Operating Systems (RTOS) for embedded processors
- Experience developing firmware for ARM based SBCs

**Applicants please note:** Northern Light Technologies is currently in the Leaside, Toronto area, but we are scheduled to move to our new location in North York in December of 2017.

## How to Apply

Our online application will give you the option to apply to this role as a complete candidate and not just a resume.

Apply at: <https://www.fitzii.com/apply/22668?s=fc>





The application will assess your qualifications, personality traits and workplace preferences, and should take 10 to 15 minutes to complete. You can get a copy of your assessment when you're done by logging back into the application tool.

If you require any accommodation in the application process, please contact us with the "Need Help" button in the application.

We will review applications as they are received and look forward to hearing from you.

