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

This is an opportunity to use your networking and programming skills to help create and maintain an innovative, cutting-edge communications solution for industrial environments. You will be part of a team creating world class products for an international market.

This position is required to design and implement embedded systems, providing fixed and wireless TCP/IP networks in industrial environments. You will also develop applications for an embedded Linux operating system running on a SBC platform.

Skill requirements

- Strong Linux system programming skills
- Exposure to open source applications and package build / development, including OpenWRT / LEDE
- Programming language skills should include mastery of C
- In-depth knowledge of kernel programming, driver development, socket programming
- Source control management using GIT
- Strong knowledge of GNU toolchain and cross-compilation
- WEB GUI knowledge and programming for embedded systems
- Network skills include in depth knowledge of protocols such as Ethernet, TCP/IP unicast and multicast
- Wireless skills include 802.11a/b/g/n/ac and MESH networking protocols and in-depth understanding of the 802.11 Linux stacks and drivers. This includes debugging, development and modification.

Qualifications

- Bachelors degree in Computer Engineering or Computer Science or equivalent experience
- A minimum of 3 years' experience
- Excellent written and oral communication skills.
- A valid passport and be available for occasional international travel as required.

Additional Skills preferred

- Experience with VoIP, IP-PBX/SIP
- Scripting language such as Perl, Ruby or Python
- Knowledge of GPIO and I2C
- SNMP protocol knowledge
- Experience with VLAN, VPN protocols, STP/RSTP, syslog
- Exposure to industrial networking protocols (Modbus, Ethernet/IP, CIP, PTP)

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/18359?s=c4

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.