

Job Title:	Software Engineer
Department/Group:	Engineering
Reports To	Head of Engineering
Job Description	
Summary of role	
<p>Airtel ATN is a provider networking components that are used in civil aviation. One area of Airtel ATN's mission is the exploratory work on the future communication technologies that can be used in civil aviation.</p> <p>Along with other industry partners, Airtel ATN works on the ATN/IPS which is the next generation communication network that is based on IPv6 and utilizes heterogenous air/ground datalink technologies.</p> <p>Airtel ATN is looking for Software Engineers to strengthen the IPS team.</p>	
Responsibilities	
<p>You will be responsible for:</p> <ul style="list-style-type: none">• Coding, testing and documenting solutions for ATN/IPS.• Creating tests for the developed code.• Supporting ATN/IPS verification activities in European R&D programmes.	
Essential skills:	
<ul style="list-style-type: none">• Proficient in writing C/C++ code with awareness of platforms with limited resources.• Very good understanding of IP networks, IPv6 protocol stack and functions of modern IP routers (e.g. policy-based routing, multihoming and mobility).• Understanding of security protocols such as TLS/DTLS.• Proficient in developing and testing code in Linux environment (e.g. socket API, event driven programming, threads).• Good experience in shell scripting.• Good experience with debugging tools such as gdb, valgrind, etc...• Proficient with Git (Gitlab).	
Desired skills:	
<ul style="list-style-type: none">• Experience in programming in C++, Python.• Knowledge of GNU build tools: autoconf, automake, libtool, make.• Familiarity with Wireshark (dissectors).	

- Familiarity with XEN and Virtualbox virtualization platforms.
- Familiarity with Linux containers and Docker.

Work environment:

- Languages: C, C++, Python, TCL.
- Linux development environment.
- Git source control system.
- Gitlab CI.
- Occasional travel and on-site customer support.
- Occasional participation industry focused exhibitions.

Qualifications

- Bachelor's degree in Computer Science or Engineering discipline or equivalent experience
- 3 years of work experience in the relevant areas.

Note: This job description is not intended to be all-inclusive. Employee may perform other related duties as required to meet the ongoing needs of Airtel

Last Updated By: HR Department

Date 7th December 2021