

# Dipankar Pal

A Software Engineer with nearly 5 years of experience in embedded systems, specializing in wireless router development. I have a strong background in various technologies and programming languages, enabling me to deliver effective solutions in my field.

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[dpnkrpl/](#)

## EXPERIENCE

### Alumnus Software Ltd., Location — *kolkata*

AUG 2020 - PRESENT

Member Of Technical Staff (Embedded system Development)

As a Software Engineer specializing in embedded systems, I have contributed to the development of a range of advanced networking products, including:

1. **A 5G-enabled radio transmission device** (present)  
Working on the management plane of a 5G-ready eCPRI and O-RAN-compliant radio device. My key responsibilities include detecting various faults, from temperature issues to internal hardware failures, and notifying the central controller accordingly.
2. **A high-end wireless router**  
I worked on a high-throughput multi-WAN WiFi router, focusing on various areas such as hardware acceleration, EoGRE, IPoGRE tunneling, Ethernet driver issues, and overall system fixes and optimizations.
3. **A media-ready WiFi router**  
An RDKB-ready WiFi router specifically designed for media consumption. I worked on porting core open-source CCSP components to ensure the system is RDKB compliant.

My experience on the above projects has provided me with a comprehensive understanding of network product development, critical system debugging, and strong team collaboration.

## EDUCATION

### Syamaprasad College, Kolkata — *Bsc. Comp. sc.*

2015 - 2018 ( 3YR - 67.125% )

### Calcutta University, Kolkata — *Msc. Comp. sc.*

2018 - 2020 ( CGPA - 7.10 )

## SKILLS

TCP/IP  
Firewall  
Linux  
U-Boot  
Device Drivers  
Netifd  
Wi-Fi  
Tunneling  
VLAN  
YANG  
NETCONF  
RDKB  
O-RAN  
TR-69  
CCSP

Yocto  
OpenWRT  
Buildroot

Git  
GitHub  
Bitbucket  
Jira

C  
C++  
Python  
Shell Script

Vscode  
Jetbrains IDEs  
Vim

Wireshark  
Xterm  
GNS3

## OTHER INTERESTS

If I'm not at the office, I'm likely out with my camera or hiking a Himalayan trail with my backpack.  
Occasionally contribute to GitHub