# Dipankar Pal

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A Software Engineer with almost 3 years of experience in embedded systems, specializing in wireless router development. My expertise includes working with various technologies such as RDKB, OpenWrt, Yocto, TCP-IP, firewall, NAT, Uboot, Netifd, Hostapd, UCI, baremetal-os, device driver, and CCSP components. In addition, I have extensive knowledge and experience in programming languages such as Python, Shell Script, and C.

## EXPERIENCE

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

AUG 2020 - PRESENT

Technical Staff, grade-I (Embedded system Development)

During my time in this role, I have developed strong problem-solving skills and have a keen eye for detail.

Overall, my experience as a software engineer in the embedded systems field has given me a solid understanding of various wireless router technologies, and has enabled me to apply my technical knowledge in a practical manner.

## EDUCATION

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

2015 - 2018 ( 3YR - 67.125% )

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

2018 - 2020 ( CGPA - 7.10 )

## PROJECTS

### RDKB Porting — *Porting existing openWRT based codebase to Yocto environment.*

I have worked under a project that ported the existing proprietary router's code base to a more advanced yocto-based environment that utilized the RDKB (Residential Development Kit Broadband) software stack. This involved integrating various common lower-level code with the upper stack to enable seamless communication and functionality between different software components. My responsibilities included implementing new software features, debugging integration issues, and ensuring smooth interoperability between different software modules. This required collaboration with cross-functional teams, including hardware engineers, firmware engineers, and quality assurance teams, to ensure smooth integration of the new features into the overall product.

## SKILLS

U-boot,Linux,TCP/IP,Firewall,UCI,netifd,udev,PON,DSL,Ethernet,Wi-Fi,RDK-B,Yocto,OpenWRT,baremetal,devicedrivers,Git,Python,ShellScript,C

## OTHER INTERESTS

Open-source contribution, Photography, Trekking

## LANGUAGES

English, Hindi, Bengali