

# Naresh Meghwal

Embedded Engineer

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## OBJECTIVE

Gained hands on experience in Embedded Software Development with a good exposure in Board Support Package which includes configuration and compilation of Kernel, Device Tree and Yocto RFS, porting and board bring up.

## EXPERIENCE

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**Phytec Embedded Pvt. Ltd. Bengaluru, Karnataka**

Embedded Engineer (July 2023 – Present)

## TECHNICAL SKILLS

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- C language.
  - Knowledge on Yocto Build System.
  - Knowledge on Communication Protocols – UART, SPI, I2C
  - Board bring up and flashing
  - Good analytical and debugging skills.
  - Ability to read schematics and datasheets and Block diagram
  - Exposure to i.MX 8M Plus , i.MX6UL, A5D2x.
  - e-linux porting
  - STM32CubeIDE
  - kiCad
  - Basics of RTOS
  - Soft Skill – Team Leadership, Effective Decision Making, Efficient Management, volunteer,

## INTERNSHIP

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September 2022-March 2023

- **Skill Development Institute, Bhubaneswar, Odisha**, Embedded Full Stack IoT Analyst-  
I have completed my internship on embedded system. I have learn C programming , MCU , e-linux porting ,yocto build system. Gained hands on experience on various sensor , modules and SBCs

May 2019-July 2019

- **Aditya birla skill foundation, Udaipur,Rajasthan,** Office Assistant-  
I have completed office assistant training. I have learned skill like Team leadership and management.

## PROJECTS

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### 1. Yocto BSP ,Development and maintenance for RB-iMx6ul, Rb-A5D2x

**Hardware:** RB-IMX6UL. RB-A5D2x

**Description:** The aim of this project is to create a new Yocto meta layer (meta-rbimx6ul)&(meta-rb-A5d2x). This layer consists of all the Meta data required to generate kernel, bootloader, root file system images with single Yocto compilation.

**Responsibilities:**

- Compilation and generation of images.
- Porting and board bring up.
- Adding new packages to meta layer according.
- Toolchain generation for cross-compilation.

### 2. . Setting Up Linux Gateway for Wirepas Mesh Network:

**Hardware:** Ruggerd board imx6ul, Wirepas Sink and nick Node, Neoway-N58

**Description:** Established a Linux gateway for seamless communication between Wirepas Mesh nodes and cloud services. Using phytec board and wirepass Mesh network with Neoway-N58 4G module , for smart energy meter.

**Responsibilities:**

- Compilation and generation of images.
- Porting and board bring up.
- Configured and deployed a bootable SD-card with Debian rootfs.
- Implemented Sink and Transport services for local communication.
- Neoway-N58 4G module integration

## EDUCATION

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- B-Tech in Electronics and communication  
Techno india NJR institute of Technology ,Udaipur,Rajasthan  
(2019-2023)  
CGPA – 7.6
- 12<sup>th</sup> from Jyoti senior secondary School, Udaipur, Rajasthan

(2017-18),  
Marks Obtained – 76.40%

- 10<sup>th</sup> from Jyoti senior secondary School, Udaipur, Rajasthan  
(2015-16),  
Marks Obtained – 67.00%

## PERSONAL DETAILS

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Full Name	Naresh Meghwal
Father's Name	Mr. Bhanwar lal Meghwal
Date of Birth	17 July,2001
Nationality/Citizen	Indian
Languages	Hindi & English

## DECLARATION

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I hereby declare that the above written particulars are true to the best of my knowledge.

Place: Bengaluru

[Naresh Meghwal]