







# Bikash Narayan Panda

Being a developer I have around 5+ years of hands on experience in IOT, Smart Micro Grid & Embedded System Integration and Implementation. Technology always fascinates me and making my home smart is one of my primary hobbies. I also post blog/make videos on IoT and Embedded System.

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## Work Experience

- ITC InfoTech, Bengaluru, Karnataka**  
**Associate IT Consultant**, *Apr-2019- Now*  
*Working on backend side in Thingworx. IoT device integration with Thingworx and backend management that includes Servers and other tools.*
- Element14 INDIA Pvt. Ltd. , Bengaluru, Karnataka**  
**Application Engineer**, *Jan-2018- Mar-2019*  
*Content/Article on various technologies for Element14 Community Website and forthings.io website. It also involves designing projects including Embedded System and IOT to demonstrate the application of different categories of products*
- NIST Technology Consulting Services, Berhampur, Odisha**  
**Embedded System Developer**, *Jul- 2014-Dec-2017*  
*Responsible to design and develop IOT based products. Worked on projects starting from survey to commissioning.*

## Education

- National Institute of Science and Technology**  
**M. Tech**, Electronics and Communication, *2012-2014*, CGPA: **8.68**  
*2 IEEE Conference Publications on IOT and Smartgrid*
- PKA College of Engineering**  
**B. Tech**, Electronics and Telecommunication, *2007-2011*, CGPA: **7.32**

## Featured Projects

- Asset Advisor** [assetadvisor.keysight.com](https://assetadvisor.keysight.com)  
**Keysight Technologies Limited**  
*The project is all about a Thingworx based solution where in the devices ( T&M Instruments) send data to the cloud where the data is used to analyze utilization of the device to properly plan purchase decisions.*
- 30Kw Smart Nano Grid** [smartnanogrid.net/SmartVillageNanogrid/](https://smartnanogrid.net/SmartVillageNanogrid/)  
**OREDA, Odisha and Wärtsilä India Private Limited**  
*A smart Nano Grid comprising of 30 Kw solar power plant and providing supply to 115 homes in Chotkei Village, Odisha. The smart grid is equipped with completely autonomous stem to make it hassle-free to operate. The grid is connected to internet by using a Satellite internet connection. The smart grid features automatic billing, smart scheduling, overload detection and many safety features. **Bagged 1st prize in Smart Village Category, Smart City EXPO 2016, India***
- Online Process Monitoring System** [nanosoftremote.com](https://nanosoftremote.com)  
**Pointec Pens Pvt. Ltd.**  
*A control system designed to communicate with PLC using MODBUS over RS-485 to fetch data and logging them to cloud server. The aggregated data helps to do analytics of the production, raw material usage, employee work hours, machine condition etc.*

## Blog

- WeArGenius:** *A blog where I publish all my spare time activities with electronics ad my home automation system.*
- SBCFinder:** *A website or kind of database for all type of Single Board Computers. It lets user compare SBCs one to one. With almost 150+ SBCs to compare and 510K hits*

## Area of Interest

IoT, Smart Grid, Smart City, Home Automation

## Skills

PTC ThingWorx, Javascript, JAVA, C, C++, IoT, Content Creation

## Protocols

I2C, SPI, UART, MODBUS, AT Command Sets, TCP/IP Using mbed, Rs-485, BLE, MQTT, REST, LoRa, JSON RPC

## Familiar With

Android, HTML, PHP, CSS, JavaScript, MySQL, SQLite, PostgreSQL, Solr, Shell Scripting

## Software Tools

Eclipse, Android Studio, Arduino, AVR Studio, MBED, OpenHAB (Home Automation), Thingspeak, TTN, Cadsoft Eagle, Grafana, Node-RED

## Hardware Platforms

LPC1768, LPC2148, Arduino, Beagle bone black, Raspberry Pi, MBED, BBC Micro: Bit, Sonoff Dev. Board, Onion Omega, Linkit Smart 7688, ESP32

## Software Platforms

Thingworx, AWS IoT, ThingWorx Analytics

## Detailed Profile

 <https://bikashnpanda.github.io>

