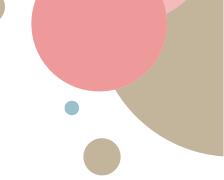
Biswajit Sahu

Phone number: +91 9124392903 Email address: mails2bisu@gmail.com

About Me: VP RnD | Industrial IoT Expert | PCB Designer | Product Engineer



Profile

An IT and IIOT passionate about software and IOT developments. I have experience in working with multiple teams on a wide range of tech stack on different stages during which i ended up learning them all.

Work Experience

09/2022 - PRESENT

Vice President - RnD Knowledge Lens Pvt. Ltd.

- Spearheaded a team of 5 hardware developers in the design and development of innovative IOTbased hardware modules.
- Successfully conceptualized and executed 8 new hardware products tailored to meet diverse Industrial IOT requirements.
- Designed and implemented industrial communication networks, including Ethernet, Fiber Optic, RS485, RS232, HART, and 4-20mA analog signals, to ensure seamless on-site implementation.
- Led the design and development of state-of-theart Robotic Inspection Systems for multiple esteemed clients.

08/2019 - 09/2022

RnD Lead, Senior Technology Specialist Knowledge Lens Pvt Ltd

- I was leading the development of a cutting-edge IIOT Platform utilizing Azure IoT and AWS IoT, enabling industries to effectively achieve their Industrial 4.0 objectives.
- Designed and developed a dynamic portal for seamless IoT device management from the cloud, enhancing operational efficiency for clients.
- Demonstrated expertise in developing firmware for IoT devices, ensuring optimal functionality and performance.

Work Experience

11/2015 - 08/2019

Software Developer Knowledge Lens Pvt Ltd

- Led a team of 8 in the design and development of a national-level real-time data monitoring portal for the Government of India.
- Developed software modules using Python for IoT devices.
- Decoded device communication protocols and crafted device drivers.

☆ Strengths

- # Leadership # Innovation # Strategy
- # Collaboration # Communication
- # Problem-solving # Networking

Achievements

Filed a Patent

 Filed a patent application under file number 2023P-101-US for the innovative IT-OT Security hardware (Data Diode) allowing seamless communication between sender and receiver through digital pulse signals

Certificates

01/2024

Azure Fundamentals AZ-900 Microsoft



Major Projects

09/2023 - 12/2023

RSS - Robotics Survielence System

- Implemented and developed an advanced online platform featuring cutting-edge AR/VR technology for enhanced user experience.
- Designed and programmed a robust system to assign missions and tasks to multiple surveillance
- Leveraged high-quality images captured during surveillance to intelligently assign tasks to robots.

07/2022 - 08/2023

iLens AVIS - A Vision Inspection Robot

- Developed and implemented AVIS, an innovative Automatic Visual Inspection System utilizing a Gantry based robot to conduct meticulous visual inspections on various objects.
- Applied advanced Image Processing to effectively identify defects in products by diligently examining their shape and size.

03/2020 - 08/2022

iLens IOT Products

- Developed four types of Dataloggers tailored to meet the distinct requirements of the Indian market, utilizing ESP32 Microcontroller and Raspberry PI based Microprocessor.
- Successfully executed the major task of collecting data from diverse industrial equipment and seamlessly uploading it to the cloud.
- Designed and constructed an AI Enabled IP67 Rated Camera to address the demand for real-time distributed video processing industries.
- Implemented camera technology for item counting in production batches and detection of defects on products.
- Engineered two models of DataDiode System ensuring the secure, uni-directional flow of data, enhancing IT-OT security for industries which enabled them to send realtime OT data into Cloud.

10/2017 - 12/2018

CPCB CCR - A Govt of India Project

- Developed and implemented a cutting-edge platform for real-time monitoring of pollution levels across India
- Utilized over 1000 air quality monitoring stations to collect and upload data every 15 minutes, ensuring comprehensive coverage
- Generated accurate and up-to-date Air Quality Index (AQI) reports for various cities in India, effectively communicating pollution levels
- Created and managed a user-friendly complaint management application, enabling users to report air-related incidents promptly and automatically assign to the nearest officials.

A Technical Skills

~ PROGRAMMING LANGUAGES

Professional Pvthon **Professional** C, C++ Java Limited Limited HTML, Javascript

~ DATABASE

Professional MongoDB SOL **Professional** KairosDB **Professional** Apache Kafka **Professional** Elasticsearch Limited

~ SYSTEM & NETWORKING

GitLab **Professional** CI/CD Pipelines **Professional** Unix/Linux Systems **Professional Professional** Nginx Network Administration **Professional** Virtualization Limited

~ COMMUNICATION PROTOCOLS

Modbus **Professional** OPC UA/DA **Professional** AB - Ethernet/IP **Professional** Limited Profinet **MQTT Professional**

~ IOT STACK

Arduino, ESP32 **Professional** Raspberry PI **Professional AWS IoT Professional Professional** Azure IoT



08/2011 - 04/2015

Computer Science and Engineering |

Biju Patnaik University of Technology

Mobbies



Capturing moments



Gaming



Badminton



DIY



Home Automation

