

Champak Das

Computer Vision | AI | ML | Project Architect | Research & Development



Summary

- Innovative & Creative Product Design & Development with 9 years experience in various field.
- Expertise in computer vision, images processing in OpenCV, Python, NI Vision.
- Object Inspection Product Development.
- Project Lead , Team Lead , Architect



Work Experience & Responsibility

Jekson Vision

Senior Research Engineer , Innovation Section

May|2023 – Present

C++ | Python | OpenCV | Image Processing | Computer Vision | Object Verification | Mysql

- Image Processing Algorithm development , Features improvement , New product development.



Kevision System

Project Architect Lead, System Executive

November|2021 – April|2023

Python | OpenCV | Image Processing | Computer Vision | Object Verification | Mysql

- Architectural Design , SDLC
- New Product Development, Product New Features integration, technology enhancement, product performance improvement.
- Team Leading, Project Lead, Debugging, Customer Requirement understanding, Product Improvement with Market Requirement.



Tech Mahindra (GE Appliances)

Senior Engineer

July|2021 – November|2021

NI Teststand | Confluence | NI LabVIEW | Python

- Development of QA Automation Test Sequence for GE Appliances Product.
- Testing and validation algorithm development with multiple team
- Create generic Testing sequence Plan of Confluence page



Kevision System

Senior System Engineer

September|2016 – June|2021



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Professional Roles

- Sr. Research Engineer
- Project Lead
- Project Architect
- Team Lead

Technical Skills

- Image Processing
- Computer Vision.
- Python
- OpenCV | NumPy | Pandas | Zbar | Libdmtx | Tesseract
- C# , C++ , C
- NI Vision , LabVIEW , Teststand
- My SQL , SQL

Project Management Skills

- Github , SVN
- Teams
- Trello
- Confluence
- Slack

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Python | OpenCV | Image Processing | NI Vision | Mysql | NI Vision | Multi-Camera

- Design & development of software compliance with SDLC.
- Project & team leading.
- Unit level test case design and apply.
- Product features integration.
- Multilevel testing , test sequence design

Optimized Solutions Pvt. Ltd

Application Engineer

October|2014 – September|2016

NI LabVIEW | DAQ | CRIO | PXI

- Development, Installation and commissioning Control & Data Acquisition System.
- Development ATE of pump manufacturing Industries.



Key Project Accomplishment & Details

- **Blister Inspection System & Tablet Inspection System**
 - **Platform & Tools :** NI Vision , NI LabVIEW , Image Processing , OpenCV , Python , NumPy, SQL, Machine Vision , USB 3.0 Camera , Lenses.
 - **Details:** A vision based inspection system designed to identify structural defect, production defect, product mixing, unwanted product in running Medicine Blister Packing line and Bulk Bottle Packing line.
- **Track and Trace System for Tobacco Packing Line**
 - **Platform & Tools :** NI Vision , NI LabVIEW , Image Processing , OpenCV , Python , C# Machine Vision ,SQL Database , Mysql , USB 3.0 Camera ,Smart Camera , Lenses ,
 - **Details:** Product Tracking and Tracing system integrated with Smart camera, Laser printer up to 5 level of hierarchy on production line with local server, global server and cloud data engine. Complete multi-level tracking system compliance with Universal GS1 Standard, different regulatory like: EU, DTS, CRPT, DGFT and SFDA.

Project Management Skills

- Github , SVN
- Teams , Jira
- Trello
- Confluence
- Slack

Certification

- Python Developer By Kaggle.
- Certified LabVIEW Developer By National Instrument [USA]

Hardware Expertise

- Industrial Camera GiGE ,USB 3.0 , Lenses.
- NI cRIO
- NI PXI , PCI
- cDAQ

Certification

- Python Developer By Kaggle.
- Certified LabVIEW Developer By National Instrument [USA]

Educational Qualification

- B.TECH in Electronics &Communication on 2013 with 81%.
- 10+2 in Science in 2009 with 81.3%.
- Secondary (10th) on 2007 with 83.3%.
- Junior diploma in Fine Arts