

## **PROFILE**

- Cross-functional experiences in IT, Application Development & Implementation, Test Engineering, Manufacturing, R&D, and Supply Chain
- Strong engineering background in Test Engineering, Software Engineering & Development, New Product Transfer, New Application Development and Manufacturing Process Improvement.
- Application Development and Project Management. Wide programming knowledge using C/C++/C#, VB, Java, Perl, PL/SQL and many more. Wide knowledge in various operating systems like UNIX, Linux, Windows and Ms Dos. Particularly interested in software application development, web development and any new challenges in software development.

## **WORK EXPERIENCE / PROJECT / ACCOMPLISHMENT**

### **Pentamaster Smart Solution**

*Software Engineer (08/15 – present)*

Developing IoT Application to track construction resources

Developing MES shop-floor tracking system

Developing middleware to integrate machine data and shop-floor sub-system

Developing Smart Building Application

### **Hi-P China**

*IT Application Software Engineer – Shanghai (07/13 – 4/15)*

*IT Application Software Engineer – Tianjin (11/11 – 07/13)*

Consult, assist and mentoring Test Engineering in setting up test system in SZ

- Help in setting up new plant in SZ
- Mentoring new test engineering to work on NPI test system
- Assist test system to intergrade with CAM/Shop-floor

Roll-out CAM/shop-floor system to other EMS side

- Reengineering for more flexibility to handle all EMS product
- Reengineering for more flexibility to meet various customer requirement
- Provide common process control points/modules for system integration
- Provide training and consultancy to side support team

Developed and implemented CAM/shop-floor system in Tianjin

- Integrated internal and external subsystem for data collection and traceability tracking
- Provided system capability to do Pick-Pack and direct-ship shipment
- Provided unique shipment info to customer via EDI
- Provided unit-history and flow/defect/analysis/rework tracking report

- Provided yield report and statistical data analysis to engineer

Recruit, train, supervise and lead IT team in Tianjin

- Managing and supporting all local IT system, which include LAN, WAN, PBX, System Server, Office Applications and Office IT Equipment's.
- Working with corporate IT to align local requirement with corporate direction.
- Working with customers to meet the requirement in network connectivity via secure network and VPN.

Conducted coaching/training to Test Engineer

- Conducted C#/C++ training to Test Engineer
- Provide consultancy to Test Engineer in developing test software for new products

## **Avago**

*Supply Chain Software Developer (01/10 – 11/11)*

- Generated reports base on Supply, Demand and Inventory for wafer buy
- Developed application tools to generate wafer map from SDI file
- Setup system to auto upload/download supplier and customer EDI message/file and reports

## **Motorola Penang**

### **Supply Chain Operations**

*ISC Principal Staff Engineer (01/07 – 12/09)*

Management responsibilities for material planning, inventory control, receiving, shipping and 3PL warehouse

- Managed and controlled materials movement between factory and 3PL warehouse
- Led the team to top in class and achieving first KDDI compliance warehouse in the whole organization
- Minimized misallocated record from 70/week to 0, reduced receiving pending record from 300+ to less than 50, reduce WIP inventory by 35%,
- Achieved cost avoidance on warehouse space by eliminate E&O, LTB and material aging risk

Consulted and deployed cross-functional projects like, JIT, Factory Daily Material Planning, internal staging and replenishment process to eliminate waste and achieved lean

Provide tools and application for material planning and inventory reductions

## **Information Technology (IT)**

*IT Strategic Principal Staff Engineer (10/05 – 12/06)*

*IT Strategic Senior Staff Engineer (07/00 – 10/05)*

SME (Subject Matter Expert) for sub-system integrations in Global IT project. Consulted in major Global IT project like Global Hubbing Integrations, System and Process Integrations in Warehouse Outsourcing, and Buy-resell

Developed and deployed system to improve process efficiency, inventory reduction and cost reduction:

- Hubbing System Automation that leverage EDI signal from business partner to reduce data entry effort by 50%. Improve data accuracy and efficiency which is one of the key factor to success in Hubbing Project
- MIMAT (MES / Shop floor system) that leverage on RF scanner and barcode label to improve warehouse performance, reduce 50% cycle-time in Put Away, Picking and Cycle Counting.
- Super-mart concept to reduce data entry error and improve transaction accuracy
- Machine Auto Replenishment System to improve WIP replenishment efficiency; reduce WIP inventory by 50%

Project lead in system migration and system upgrade:

- Oracle ERP 10.7 to 11i migration
- Sub-system integrations with Oracle ERP 10.7
- System & Process integration for warehouse outsourcing project
- Factory migration from old facility to new facility (Technoplex)

Conducted training in variance programming language (C/C++, Java, .etc.) and Office application training (Access, Excel, Power-Point .etc)

## **Test Engineering**

*Test System Staff Engineer (07/95 – 07/00)*

*Test System Senior Engineer (02/94 – 07/95)*

*Test System Engineer (07/91 – 02/94)*

Provide solution to improve test system quality, cycle time reduction and cost reduction:

- Developed and deployed Equipment Tracking System, Daily Force Correlation and Two Point Calibration Method to improve system quality and minimize downtime
- Developed and deployed barcode-id tracking system to track UUT from front end to shipping; Improve traceability and allowed data collection for capacity planning, cycle-time reduction, quality improvement and cost reduction projects
- Developed standard test system that leverage network device for multiple protocol and cross platform configuration
- Driving SEI CMMI process to improve test system software quality

Involved in R&D for new product design to ensure products are design for manufacturing, having smooth new product transfer, hence achieved end-to-end cost reduction:

- Provide equipment, fixture and test spec to R&D
- Provide NPI (New Product Introduction / New Product Transfer) check list to ensure smooth transfer and setup
- Developed firmware coding for UUT testing
- Developed and designed standard test platform and cost effective tester – Common world-wide radio programing test system, RF chamber for radiated measurement use in factory environment and standard test fixture to simplify setup
- Cost, Resource, Process and Capacity Planning
- Supported and coordinated during NPI and New Product Transfer

Maintain and Support Production System included but not limited to the following:

- Conducted coaching/training to technical and non-technical staff
- Maintain multiple system platform and multiple programing language
- System admin for test system server. Developing disaster recovery plan and backup strategy
- Setup, configured, fixture improvement, process improvement and capacity planning

## EDUCATION

M.Sc. in Electrical Engineer, University of Nebraska – Lincoln, Nebraska, US	1991
B.S. in Electrical Engineer, University of Nebraska – Lincoln, Nebraska, US	1988

## SKILLS

### Computer background

Language	: C/C++/C#, VB, Java, Perl, SQL, PL/SQL, Shell Script, Pascal, FORTRAN, Assembly, Python
Operating System	: UNIX, Linux, Windows, Dos
Application Tools	: Ms Word, Excel, Power Point, Outlook, Ms Project, Ms Visio
Web development	: HTML, PHP, ASP, VB Script, Java Script, XML, Bootstrap, Angular
Database	: Oracle, MS Access, SQL, MySQL
Networking	: LAN, WAN, TCP/IP, EDI, telnet, ftp, Sockets, Structure Network, ZigBee, IoT
Process/SDLS	: SEI CMMI, Object Oriented, Structure Method, Agile
ERP	: Oracle 10.7, 11i
System Admin	: Developing disaster recovery plan and backup strategy

## Engineering

Electrical Engineering, Communication, Networking, RF Equipment, Test Equipment, Signal processing, Video data compression, Control system, Fixture Design, System Design, System Integrations

## Others Competencies

- Project Management
- Platform development
- Digital Six Sigma (DMAIC)
- Lean Manufacturing
- Mentoring, coaching, training to technical and non-technical staff
- Supply Chain and ERP/MRP
- Material Movement and Hubbing (VMI)
- Barcode / Scanning Tracking System
- RFID, IoT, Resource Traceability
- Driving team performance with KPI
- Leadership and Team building
- Smart Building

<b>LICENSE / CERTIFICATE / WORKSHOP / ACTIVITIES</b>
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- EIT from US
- Amateur License
- Microwave Fundamentals Course
- Building XML-BASE Web Applications
- Design & Implementing DNA Application
- Mastering Application Development with Visual Basic
- Mastering Application Development with JAVA
- Advance ANSI C Language Programming Course
- POSIX Shell Programming
- Fundamental of HP-UX
- HP-UX System Administrative Course
- Programming with HP-UX System Call Course
- Introduction to Oracle RDBMS – SQL\*Plus, SQL\*Forms
- Oracle Database Administration
- SQL Statement Tuning Workshop
- Oracle JDeveloper : Develop Applications with Business Components
- Oracle Manufacturing Technical Workshop - Rel 10
- Implement Oracle Workflow – 11i/2.6
- Team Building Program
- Building High Performance Teams
- The Art & Science of Information Management for Peak Performance
- Building The Leadership Team For Outstanding Result by John C. Maxwell Live in Person

## TECHNICAL PAPER

- Hubbing Inventory Movement Transaction Automation
- Machine Auto Request System
- iDEN Advance Shipping Notice (ASN) Improvement
- Notebook security Check System
- Buy Resell Operation Process Automation and System Integration
- Machine Inventory tracking System
- Material inventory movement tracking advance system
- Common world wide radio programming test system
- LAN HP-IB test system
- Test System Architecture
- Shipping online barcode tracking system
- Online score board system
- Optimizing calibration error using two point calibration method
- Low cost effective power adapter tester
- RF chamber for radiated measurement use in factory environment
- Frequency switching transmission scheme for low rate video

## WORK HISTORY SUMMARY

### Pentamaster Penang – PSS

08/15 – present : *Software Manager*

### Hi-P Tianjin

07/13 – 04/15 : *IT Application Manager - Shanghai*

11/11 – 07/13 : *IT Application Manager Engineer - Tianjin*

### Avago

01/10 – 11/11 : *Supply Chain Analyst*

### Motorola Penang

01/07 – 12/09 : *ISC Principal Staff Engineer*

10/05 – 12/06 : *IT Strategic Principal Staff Engineer*

07/00 – 10/05 : *IT Strategic Senior Staff Engineer*

07/95 – 07/00 : *Test System Staff Engineer*

02/94 – 07/95 : *Test System Senior Engineer*

07/91 – 02/94 : *Test System Engineer*

### University Of Nebraska – Lincoln

8/90 – 5/91 : *Teaching and Research Assistant*

1/90 – 8/90 : *Computer Consultant and Facility Assistance*

1/86 – 8/90 : *Student Maintenance and Mechanic*