

20, JalanPermas 3/6,
Bandar BaruPermas Jaya,
81750, Plentong,
Johor Bahru
Johor, Malaysia.

Age: 37years (12/12/1976)
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Jayakanthan M. Lachmanan

MANAGER / PRINCIPAL ENGINEER: SYSTEM INTERGRATIONS, DESIGN, AUTOMATION & CONTROL

Objective: While being resourceful and technically competent, I believe in true meaning of Teamwork, which means never let anyone fail in any organization. My responsibility to make things work as planned.

Experience: **Currently employed in Cable Industry from the total of 15years' experience in Manufacturing Environments.**
Semiconductor Industries = Total of 5.5 years (Micron Semiconductor & National Semiconductor)
PCBA Industry: Total of 2 years (Venture Technocom System)
Food Industries: Total of 6.5 years (British American Tobacco P. L. & Power Root (M) SdnBhd)
Cable and Wire Industry: Total of 8 months (Westral Insulated Products (M) SdnBhd)



August 2013 – Current Westral Insulated Products (M) SdnBhd
Production / Operations Manager

UluTiram, JB
Dept: PRODUCTION

Oversee Production & Technical Requirements for Malaysian plant operations and reports to CEO. Operationally in charge for overall factory of 15 staffs for 2 rotating shifts.

Responsibilities / Accomplishments:

1. Experience in working with copper cable manufacturing environment for fire safety insulations process before the extrusion takes place for complete cable finishing.
2. Handling slitting of mica sheets with glass strands from raw logs to 1st slits until the required widths before winding it from straight up pads to stepped pads.
3. Operations experience with high speed wrapping machines where the copper cables are loaded in for mica tapes wrapping covering of 2000rpm head speed and 25m/min line speed for productions.
4. Able to setup the machines based on IEC & BS specs of the requirements by 25% overlaps, buttlaps, intercalated and 50% overlay wraps.
5. Improves the palletizing and FG products creations and inspection.
6. Prepares Work Assignments & Job scheduling for the received PO and sample jobs for R&D.
7. Prepares logistics including incoming and outgoing shipments, certifications and QA requirements.
8. Implemented raw material allocations, stock control reordering and management of inventories.
9. QA system implementations & improvements including internal auditing and corrective actions.
10. Perform machine maintenance with the requirements of Australian Engineering Group.
11. Oversees the facilities requirements and works with TNB, SAJ, TM and their contractors.
12. Setup the plant to complies with DOE, DOS, BOMBA, CUSTOMS & Local Governments requirements.
13. Constantly engaging employee training and advancement including motivation for better working environment, disciplinary action will be last in the list because the training should be facilitated 1st.
14. Accomplished 36 proactive works for overall company effectiveness and facilities requirements from August 2013 to date (March 2014) in 32 weeks.
15. Responsible for 378 jobs executed for company from Aug 2013 until now (March 2014) in 32 weeks.



Oct 2009 – July 2013 Power Root (M)SdnBhd

Plentong, JB

Principal Engineer

Dept: ENGINEERING

As Head Of Engineering Department reports to Head of Operations and in-charge of 17 Engineering staffs of 2 Engineers (Equipment & Facilities), 3 Machine Specialist, 1 Engineering Admin & 11 Technicians for 24/7 manufacturing operations.

Equipment's Responsibilities:

16. Maintenance and optimization of full functioning of Mixers (Paddle & Ribbon), Hopper, Silo, Screw Conveyor, Filling Machine, Auto Packing to Cartooning, Catron Conveyor until Palletizing Robotics for Food Processing Environments of both Dry Powders and Beverage can products.
17. Provide Level-3 on-call support during night shift / Public Holidays and via Remote Access into machineries for troubleshooting during outstation.
18. Design and implement Automation Control and System Integration into currently available machine for product and packaging improvements for different countries requirement of Sales & Marketing.
19. Assign the weekly and monthly Preventive maintenance plan based on Production Planning and Operations Requirements to best deployment of Engineering Crew vs. the Machine's Functional Limits.
20. Maintenance the Safety control link and cut off for all machine during any emergency for both electrical signals and pneumatics.
21. Familiar with all types of approved material for food processing plant SUS304, PTFE, PE, Nylon welding techniques of TIG, MIG qualities.
22. Familiar with sealing techniques for Liner/Bush Bearings, Cam Followers, Oil Sealers for Motors and Pneumatic Cylinders.
23. Excellent in PLC & Touch screen programming of Mitsubishi Melsec&Melservo, Omron, Keyence, Panasonic, Hakko, Proface, Siemens S7, Schneider Smart Relay, Wago, BeckhoffEter-CAT, Relays & Timers both in PNP and NPN controls.
24. Able to design a concept machine using induction motor, stepper motor and servo motor via indexing gear, worm gears, clutch, slip clutch, brake, homing, direction change and speed control.
25. Good in microcontrollers and electronics control from power supply, noise elimination, logical processing to signal biasing in any given circuits for automation and controls.
26. Familiar with all types of sensors of capacitive, inductive, contrast, colour, optic, diffuse, retro-reflective, analogues synchronous modules, encoders, temperature controllers, pressure sensor and microwave level sensor and experience with ifm, Cognex, Baumer, Autonics, Omron, Keyence, Pepperl+Fusch, Honelwell.
27. Able to design and implement in-house modification of any given task in Automation & Control for the machines as modular or subsection level.
28. Hands on working experience with varieties of printing and marking technology of products using laser scribe, inkjet, hot-stamp, pressure stamp & thermal print.
29. Continuously participate in process improvements and provide training of technical background to all level of staff in company including managerial and new staff during inductions.
30. Immediate response for CCP (Critical Control Point) equipments to ensure conformance to our quality procedures for X-Ray Machines, Weight Control Machines and Endress&Hausser Data Collection for Product Integrity and Traceability as a part of ongoing SCADA project.
31. Provide Failure Analysis for return material and packing quality from Marketing and Customer and suggest improvements for machines to overcome the issues.
32. Familiar with ISO9001(Quality Procedures), ISO2200(Food Safety), HACCP, GMP and all the documentation controls and revisions.

33. Maintain and provide monthly report of usage summary of all the spare parts under engineering's control for audit and stock take. Review tools and consumables in the workshop for replacements/upgrade with our current requirements and needs.
34. Approver for Purchase Requisition for Engineering (Equipment & Facilities) for purchases and provide cost effective solution for the suggested equipments and spares with ROI on the investments.
35. Maintain and control the Chemical storage for all Food Grade and Non Food Grade lubrications and Scheduled Waste and ensure all the stored and used items are conformance with Department of Safety and Department Of Environment as per Malaysian Government's regulations.
36. Programming skills in Visual Basic, OXPA Okura Robotics, CMMS, PHP-MySQL, HTML, RS-232 ASCII and successfully integrated of all info from different types of machineries and model into a centralize server for data acquisition and monitoring via http port using LAN network environment.

Facilities Responsibilities:

1. In charge of all Facilities Improvements, expansion and maintenance for both Dry Powder Plant & Beverage Can Plant Operations.
2. Maintenance of 415VAC 1600Amp Power Generator which will be used during critical Power Cut-of by scheduled/non-scheduled TNB outage (National Electricity Supply)
3. Maintenance of Capacitor Banks and Consumer Switch board
4. Yearly maintenance of Incoming Switchgears VCB (Vacuum Circuit Breakers) for 11kV 1600Amps, Customer Switchgears ACB (Air Circuit Breakers) for 415V 800Amp for Medium Voltage supplies.
5. Level 3 support (after Boiler man) for Boiler Machine (diesel burners) during critical downtime.
6. Experienced in handling Retort, Homogenizer, Pasteurizer, Double Seamer, Filling and flow control of beverage can for liquid processing.
7. Maintenance and support for Air Compressor (Kaiser) and Air Receiving Tank to supply 8 Bar of compressed air to all plant machineries including the calculations and additional buffer air receiver during machineries & plant expansion.
8. Provide critical support (after Facilities Engineer) for Rooftop Chillers, AHU, Dryers to maintain 23°C of temperature and humid approx 55% for best dry powder processing at dry powder packaging plant.
9. Familiar with Malaysian Water Commission's regulation for incoming water supply and in plant water treatments involved for consumable liquid processing of Reverse Osmosis & De-Ionized for production.
10. Provide monthly facilities usage summary of utilities (water and electricity supply) by ensuring daily audit by facilities team for usage calculation to detect any discrepancies or wastage with our production plan and operations.
11. Safety committee member representing Engineering for utilities and machineries and provide risk assessments for evaluation and buy off for new machineries. Accomplished 5 notable safety improvements for machineries and conveyor lines.

Completed Projects with Silver Bullets:

1. Design own paddle mixer with 3 speed control to mesh solidified dates to check for suspected contamination of foreign material from middle east raw material which critical for production output. Currently it was used as mandatory process for all incoming dates IQC process.
2. Design and rectified known mechanical failure for our 28 number of old single lane filling machine for cup dispensing cover to prevent the loose wear and tear grip that causes machine parts to drop into the volumetric cup after an undetermined prolonged hours of operation. Received a recognition letter from company for solving it from the MD.

3. Cost savings of RM120,000 for 2 years calculation by modifying 53unit of CCTV 12VDC power supply that constantly broke down each year due to power surge. This was done by adding in higher voltage rating of capacitor at the rectifier and added 7812 regulator with π (pi) LC filters. This modification lasted until today (3years) with no power supply breakdown.
4. Technical visit to Handok, Geong-Gi Province, South Korea in November 2012 and implement 7 improvements for the purchased machineries before being ship over to Power Root, Malaysia.
5. Design an analogue synchronization control for Japanese filling machine to work with Korean Autopacking machine for start speed and running speed. This control interact with both machines VFD's for 2 speed motions before the Q point of the synchronization meeting signals was reached. It was impossible before, because both machines uses different PLC brand and the technology couldn't provide a handshake with each other. Received notable recognition from the company.
6. Design a fool proof system of handling weight inconsistency by not allowing the operator to bypass the weighing system for the product going into the Finish Good area. This was done by tapping the output signal of Mettler Toledo weight check and feed into a relay based system with timer to stop the output conveyor while resetting it needs the same carton box to be brought back and rectify the weight before a magnetic card (hold only by QA) to work in parallel before the system can be activated. With this system, we don't have any more missing/over quantity products in our Finished Goods carton.
7. Project management of locating of 6 new machineries from Korea from factory expansion, product flow piping's, utilities of electrical and compressed air readiness, conveyor expansion and upgrade, machine commissioning until buy-off to full production mode.

Last Completed Projects before left:

1. Currently designing layout of manufacturing plant for new factory in Dubai, UAE.
2. Integrating RFID card reader for Authorization of Access Level to reset weighing issues for conveyor to resume operation thus preventingNG products to escape to Finished Goods. Part of PIAT.
3. Converting all manual control (rotation dial) in filling and packing line to digital interface for easier process controls based on the displayed value. Such as running speed & sealing temperatures. Old machine upgrade project.



Aug 2008 – Oct 2009 Venture -Technocom Systems SdnBhd
 Snr Equipment Engineer (Feb 2009 – Oct 2009)

4, JlnKempas 5/2, JB
 Dept: INTERMEC

1. Responsible for Manufacturing Process of Portable Printers Assembly Line.
2. Ensure smooth operation of assembly processes and provide 2nd level of support for technical issues after escalated from technicians.
3. Commission & buyoff new equipments before releasing it for Production use.
4. Prepare "Engineering Change Notice" for Customer Requests or Approved Evaluation.
5. Prepare work instruction (V.S.O.P) for all Configuration of Assemblies & Work with Document Control to prepare and Implement the approved documents in various departments.
6. Maintenance of FUJI pick and place machine, Heller & Vitronics Oven, DEK Screen Printing.



Oct 2004 – Aug 2008 British American Tobacco S'pore P. L.
 Senior Electrical & Electronic Engineering Technician

15, Senoko Loop, S'pore
 Dept: SMD

1. Troubleshoot tobacco manufacturing machineries until component level defect for electrical and electronics related fault for SMD & PMD in less than 30minutes to meet the KPI.
2. Familiar with the industrial Programmable Logics Controller, electronic sensors, electric motors & drive system, SCADA data acquisition and general automation control systems.

3. Experienced in programming PLC and Automation for Siemens's S5 & S7, Keyence's KV Builder, Omron's CX Programmer & Allen Bradley systems. Understand well with Beckhoff&Wago system.
4. Good understanding in quality control of cigarettes in PD, Density, Ventilation, Weigh, Length, and Diameter. Able to differentiate defect Classes by category based on Equata.
5. Involved in PIAT (Product Integrity and Traceability) for data communication between the machines to centralized server system which powered by Citect. Thus understand well in different types of interfaces among systems like RS-232 DB25 & DB9, RS422, RS485, RJ45, Multidrops&Digiports.
6. Perform PM and weekly machines performance audit to ensure machine settings are in order and modify changes (if any) to achieve high product quality, yield and operation efficiency.
7. Supervise vendors and contractors to ensure machine installation works are properly executed with high standard which meet BAT requirements and project schedule plan.
8. Troubleshooting and fault analysis for all types of machines which supports the overall manufacturing until finished goods product.
9. Hands on experiences with Machineries that supports the SMD Operations. To name a few:
 - a. Making Machines:
 - i. Hauni – Protos 90ER/100S/90S(Cigarettes), KDF 90E (Filter Rod),
 - ii. Ripping Machines: Decouffle DWR
 - iii. Weight Control: ACT, SRM, Accuray
 - iv. Flavour Applicator: Kaymich UFA1000
 - v. Laser Perforator: 300S & 400S Class 4 CO2
 - b. Packing Machines:
 - i. Focke – 317, 350, 800, 741, 401, 408, 485
 - ii. GD – X2 (HardPack), X500 (SoftPack)
 - iii. Mollins – Europa (Walrus), Marden Edwards – BX100FF, B50FF
 - iv. Feeders: Molins Tudor, Magomat, Comflex System
 - v. Laser Markings: Solarjet, Flymark
 - vi. Printing System: VideoJet Excel, Hitachi Inkjet, MARSH, DOMINO
 - vii. Labeling System: LabView, TEC, Sato Legi-Air
 - viii. Stamper: Aiger Stamp Master, GD's AN Stamper
 - ix. Vision System: Cognex In-Sight, Keyence Colour Vision System
 - x. Palletizing System: Autoveyour, ABB & MX100 Robots



Sept 1999 – Oct 2004 Micron Semiconductor Asia P.L.
 Snr QA Engineering Assistant (AQL Technician)

Bendemeer Rd, S'pore
 Dept: QRA

1. 5 years experienced in Memory Module operation from PCBA, Testing, QA to product shipping.
2. Able to analyze defective memory module until component level.
3. Give out disposition for manufactured memory lots with test or visual defects.
4. Represented QA at Global Defect Correlation Team Meeting at Boise, Idaho-U.S for monitoring continuous improvement and to set up a Global Visual Addendum besides JEDEC's Class-2 specs.
5. Good understanding of JEDEC IPC-A-610C Surface Mount Assemblies.
6. Wrote around 50 Specification, User Guide, Documentation and Case Analysis.
7. Maintain and manage department's web page and update weekly report of images / dBase.
8. Prepare weekly report of Module AQL's fallout of Assembly Related DPM and potential customer defect (functionality related) CDPM
9. Assist RMA Engineer with SCAR and help QA to raise MRB.
10. Successfully trained & upgraded 3 QC's to become Technician as a pilot project. (Silver Bullets)
11. Good working knowledge with multiplatform OS environment and able to detect any defects.

13. Managed to reduce 30% test time for SLT by configuring automated batch script. (Silver Bullets)
14. Familiar with troubleshooting pc systems that used for System Level Test.
15. Provided 1st Level of Critical Test Support for worldwide Micron plant for disaster recovery remotely.
16. FA Lab's tool: CSAM, SEM, X-ray, Micro-Mate, ERSA-Scope, Micro cross-section, TC & THB.
17. Experienced with BGA product qualification and stress analysis using Moiré.
18. Perform Mechanical Simulation of VTC, Torsion, 3-Point Bend & Drop Test.
19. Successfully setup VTC machine and documented the procedures for HASS & HALT.



Jan 1999 – Aug 1999 National Semiconductor P.L.
Manufacturing Specialist

Toa Payoh, S'pore
Dept : Cyrux

1. Handle Machine and Tester repair. Repair Damaged Burn-In Boards and Ovens.
2. Calibration of Terradyne-J991Tester and maintenance of Seiko Epson & Delta Flex Handler.

Educations:	2000 - 2005	Southern Pacific University, New Mexico, U.S. Bachelor of Science in Electrical & Electronics	Paramount Institute, Malaysia BSEE (28089983)
	1995 -1998	Northern Territory University, Darwin AUS. Diploma in Electronics & Communication Engineering. (95.03.0276EAT)	TAFE College, Negeri Sembilan
	1989 -1993	Secondary School S.M.Dr. Burhanuddin 1993 - SPM (Science Stream) / GCE 'O' level equivalent (7 Credits)	

Completed Trainings:	2000:	Advance Surface Mount Technology by Waterfall Technology
	2001:	IPC-A-610C Surface Mount Assemblies
	2001:	DRAM Architecture and Functionality by Micron
	2002:	Plating for PCB Interconnect by EngelHard-Clal
	2004:	J.M.P 5.0 Statistical Analysis
	2005:	PLC Basic & Advance by Keyence
	2005:	High Speed Printing/Marking by Videojet
	2006:	Class 4 CO2 Laser by HauniGmbH
	2007:	Advance PLC by Keyence & HAKKO Touch screen programming
	2007:	ABB Robotics Programming for Palletizer
	2009:	FDA & ISO81450 by Pera Neville Clarke
	2010:	Food Safety by Government appointed agencies
	2010:	Okura Robotics by Okura Singapore
	2011:	ISO 2200 & HACCP by Pera Neville Clarke
	2011:	ISO 9001:2008 by Pera Neville Clarke
	2012:	Aroma & Senses of Flavoring by Silesia
	2013:	Fire Prevention Training

Softwares:	OS:	DOS, OS2-Warp, MS Windows 9X/NT/2000/XP/VISTA/7/8, Linux (X-Window/Shell), Solaris10
	Networking:	TCP/IP, NetBIOS, SPX/IPX, RS232, RS422, RS485, GPIB, RJ45
	Remote:	VNC, PCAnywhere, PC-DUO, RAdmin, Remote Desktop
	MutiMedia :	PaintShopPro, GIMP, Video Studio, Paint.NET
	Internet:	FrontPage, FTP, HTML
	Programming Language :	J-Script, VB-Script, C/C++, Pascal, Batch, PHP, ASP
	Servers:	Win2000/2003, Linux/Unix Apache 2.0.32, MS-IIS 6.0, SQL, WAMP, FLEXA, VAX. SAP. Svbase. MvSQL. MS Ascess

Documentation: Frame Maker 7.0, Acrobat Pro, Documentum
Office Tools: Outlook, Word, Excel, PowerPoint, Access, Publisher & Open Office Packages
Hospitality/Maintenance: Maximo, Micros Fidelio System, H.I.S., DGS, CMMS
PLC's: Siemens S5/S7, Omron, Keyence, Allen-Bradley, Omron, Schneider Smart Relay, Hakko, Proface, Mitsubishi
SCADA/Industrial Control: CITECT, Flexa Director, Aegis
CAD: AutoCAD 2012, Google Sketch 3D

Members / Society: MARTS : Malaysian Amateur Radio Transmitting Society (<http://www.marts.org.my>)
 SCOUTS: Assistant District Commissioner (Special Assignments / Communications) Johor Bahru
 Seti@Home Search for Extra-Terrestrial Intelligent at Home (<http://setiathome.ssl.berkeley.edu>)
 SKTPJ2: Academic Committee Member for School Teachers & Parents Association (2013)

Licenses: Infocom Development Authority of Singapore
 ➔ 9V1BG – Amateur Radio Licence General Class = Active
 Malaysian Communication And Multimedia Commission of Malaysia
 ➔ 9W2BUG – Amateur Radio Class B = Active

Hobbies / Interests: Scouting, Amateur Radio Experiments, SETI@Home projects, Yoga, Website Design, Research

Marital Status: Married since Sept 2002, a wonderful wife with 2 children age 9yrs old daughter and 3yrs son.

Availability: **One months notice** upon received of offer letter based on current employment's terms of contract.

Wages:	Current: Basic: 7200.00 monthly <u>Allowances / Incentives:</u> 13months AWS, Handphone	Expected: Basic: 7800.00 monthly <u>Allowances / Incentives:</u> 13months AWS, Handphone allowance.
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Referees: Listed below my referees including current employers reference:

Character & Social Service Reference:

His Highness Tunku Abdul JalilbniTunku Osman, 9M2TJO
 Royal Congregational Council State of Johor
 Istana Bukit Gedung, Johor Bahru, Johor, Malaysia.
 H/P: +6016-7086006

Employment Reference:

Randolph Wong
 Head Of Operations
 Power Root (M) SdnBhd
 No 1, Jln Sri Plentong, TmnPreindustrian Sri Plentong
 81750, Masai, Johor, Malaysia
 H/P: +6012-7111921

Hobbies and Technical Reference:

Chen KokMeng, 9M2YYY
 Senior Technologist Defence& Security
 Rodhe-Schwarz Malaysia
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