

**CURRICULUM VITAE**

# Summary

**21 years in the industry with exposure in : automation & equipment design/development for semiconductor , IPQA operations , HR Training & Competency Development ,SMT process engineering, Deployment of 6-Sigma to Samsung Corning -MIMOS Bhd-VPT-Flextronics , Lean Manufacturing in EMS , Development/customization of full 6-Sigma curriculum, train YB-GB-BB candidates , Design/deployment of Online SPC systems and LEAN shopfloor tracking systems. Total Productive Maintenance-TPM.Mentor DMAIC & DFSS Projects.Consultant for solving major Customer Incidents.**

# Personal Details

1. Name : Simon Arputharaj Victor

2. Date of birth : 7.9.66 Age : 46

3. Sex : male

4. Highest qualification achieved : B Eng (Hons) - Mechanical Engineering – UK & 6 Sigma MBB

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7. Marital status : single

# Education

1. Secondary Education

Sekolah Tinggi Port Dickson : 1979 – 1983- (SPM – GCE ‘O’ Level)

2. Higher Education

Federal Institute of Technology : 1984 – 1987( Diploma in Mechanical Engineering)

3. First Degree : 1988-1992

Newcastle Upon Tyne Polytechnic – B Eng Hons - Mechanical Engineering

***Work Experience***

***1. ARTIX LTD - England - (‘90-’92)***

Was trainee engineer on industrial placement . Design & development work on articulated dump truck (ADT) for Caterpillar.

***Project 1*** - Design & develop on exhaust heated body for ADT & flexible connection mechanism using ANVIL 5000 design software . Instrumentation - strain gauging, accelerometers, noise level testing , signal conditioning & frequency analysis using spectrum analyzer.

***Project 2*** - Final year thesis - FEA analysis on sheet metal skin for ROPS test . Build prototype panel & correlate with FEA analysis via tensile testing. The objective was to model ADT cab with good prediction in the plastic region - for strain energy absorption criteria during crash test. FEA software used was LAGS by SDRC.

***2. HITACHI AIRCON - Bangi - (‘92-’93)***

In charge of automatic high precision machining of rotary air-con compressor components. Rough & precision machining of cast components including precision grinding & surface treatment for vane type compressor. Subordinates were 3 supervisors and 80 production specialists. To sustain production line at acceptable Yield, Uptime levels.Trouble shoot equipment to fix rootcause of defects.

***3. MOTOROLA SEMICONDUCTOR - Seremban - (‘93-’97)***

Worked on automation & development projects for Advanced Manufacturing Technology (AMT) section of Central Engineering. Upfront analysis-feasibility study, design (conceptual) , develop & install custom equipment for manufacturing. Development include process & equipment characterization using 6 Sigma methodologies - FMEA, DOE, GR&R, PCI and MPCPs. Acquired valuable knowledge/experience on automation concepts, robotics, sensors, x-y tables, indexing mechanisms, ballscrews, servo motors, closed –loop control systems and various other instrumentation.

**Project 1** - Automate & develop revolutionary rotary trim & form system for sot-23. Prototype was built & tested successful - proceeded with 1st generation production machine. High speed capability at about 50 k UPH @ 6-sigma quality. System detail design by Eastman Automation & Robotics –Singapore. Patent award received for this project.

**Project 2** - Installed broken blade detector (BBD) for K&S wafer saw. BBD worked well( 100% detection) and data indicated there was a significant reduction in yield loss. Developed & installed cost effective (1/3 rd the cost) prototype BBD system - ‘external’ hardwired control using same Keyence FS-2 65 sensor maintaining 100 % detection rate.

**Project 3** - Automate & develop custom CATV heatspreader trimmer . Auto trim one-pair of heatspreaders for HFE die matching on turntable @ +/-2 mil(cpk=4) at , < 2 sec cycle time and transfer via rotary motion for Tenryu 4-head gantry robot to pick and place on multi PCBs in pallet. The auto trimmer was integrated with Tenryu 4-head machine via external hardwired handshake. Semi-production machine was successfully tested as a ‘prototype’ in production conditions. ISMECA was commissioned to build full-spec production version.

**Project 4** - Core team member for automation of RF power module. Transformation of manufacturing platform from single to panel/array processing. It was a 5 million USD project. Designed pcb array specially for singulation via routing and patented lead staking technology in panel form. Developed successfully, single pass singulation routing system which was key enabler for this major automation programme ,1500 UPH, cpk=2 @ +/- 3mil tolerance. Breakthrough singulation fixture/tooling was custom designed Won Cpk award for this project.

***4. SAMSUNG – Seremban – (1997- 2001)***

In charge of automation/development group. Supervise 3 engineers. Setup infrastructure for automation, equipment & process development and 6 sigma activities.

Manage and provide leadership in process improvement/mechanization programmes. Consultant for plantwide analysis for MPCPs, , FMEA, GR &R.

Deployed TQM and lead project teams : 6-sigma education > projects > engineering presentation

Projects handled, a) F**lared Neck Fabrication** – Automation , RM 3.3 Million b) **Panel Forming**, SET cpk analysis c) Buyoff and installation of auto neck tube washing system d) Qualification of **Grunbeck recycled water system** for Panel Polishing – RM 1.8 million e) **WWT Effluent discharge** system analysis and control plan to achieve Standard-A requirements f) Installation of **Energy Saving control unit** for plantwide air-con FCU(centralized) and dedicated/standalone types.

Section head for HRDD-Training Section. Responsible for coordination/facilitization of various internal/external training programmes for Seremban Complex catering for SCM, SDI , SDMA and SEMA.

Supervise, lead and guide 11 subordinates consisting of engineers, officers, technicians, and clerks.

Have personally trained about 800 personnel of engineers, technicians, supervisors and operators in 6 Sigma White Belt. Certified 6 Sigma Green Belter by ARGI Management consultants in 2000. Green Belt project : To reduce rework of CRT electron beam gun due to wrong gap/setting of deflector plates. Estimated cost saving , RM 240, 000 /year.

***5. Philips Semiconductor – Seremban (Feb’01- August’01 )***

Process QA Staff Engineer (Section Head) for manufacturing . Product assembly consist of sot-23, sc 59, sc 70, sc 88,sc 74. Shopfloor has 30 lines with capacity of 75 million/week. Implementation of strategic plans/measures using TQM/6 Sigma concepts to improve process/equipment capability towards achieving factory goals. Sustain IPQA operations. Preparation of 8D reports for Customer Returns. Responsible for phase compliance to QS 9000 . Subordinates, 1- Supervisor and 25 operators.

1. ***Solectron Technology – Penang (Feb’02- Jun’07 )***

Responsible for SMT – PCBA assembly of Lucent Optics products. Mid/Backend operation – Wave, press fit, rotary bonder, spirol process/equipment setup, programming and maintenance. Implemented TPM Step-0.Subordinates – 2 engineers and 18 technicians.

6 Sigma Lean implementation for CISCO SMT and box build operations.Conduct training for about 400 indirects on 6 Sigma Lean concepts. Value stream mapping (VSM)Kaizens indentified from VSM and deployed..Development of online WIP-DOS and MLT monitor system.

Site lead for 6 Sigma – SPC system design & deployment . Successful development of in-house Online SPC/DPMO system : Data extraction from machine, shopfloor, and manual interface to SPC engine with realtime control charts , auto page, auto escalate and auto line-stop. Deployed for SUN, CISCO & IBM. Impact of SPC translated to ETE(end to end yield) and delivery/ MLT (manufacturing lead time). Design and development of global SPC platform .

Black Belt project : Deploy Online SPC system for SUN CPU SMT line for paste print AOI, p/ir AOI, p/wave AOI, 5 DX , ICT. Objective, to improve End to End Yield (ETE) and Manufacturing Lead Time (MLT). Results : ETE Yield improve from 47.9 to 80.4 % . Mean MLT improve by 20 % . Cpk for MLT improve from 0.6 –0.9. Cost saving estimated : USD 3.612 million/year. Key enabler for SUN project to win 1st SPS Award in 2006, Trophy & cash USD 10,000.

Breakthrough GRR template to gauge inspection machine error (AOI, 5DX) at pin/termination level with output : GRR % , False Call-Overrjection % and Escape-Underrejection % which have detected bugs in 5 DX inspection algorithm.

Mentor Green Belt project members.Facilitated 5 GB certification by Solectron Lean Academy. Design and development of Shoporder MLT tracking system in progress. This system is to streamline back-back workorders without causing ‘chaos’ , thus preventing manufacturing members from violating procedures. And to raise altertness in closing the workorder on-time/in-full by maintaining high yields.This system will also flag-out ‘non-conforming’ w/o as ‘proactive’ trigger for corrective action. CA d-base will facilitate ‘Organizational Memory’and visibility on repeating issues for non-conforming workorder.

Successful correlation performed between 5 DX inspection vs SE 300 paste inspection. Using 5 DX ‘pass board’ for analysis, reverse -engineered stencil design and operating curve for paste print volume for critical components (CCGA, Nexlev, CBGA).The DEK paste printer was optimized using Full Factorial Experiment (DOE). Cpk was more than 1.8 for critical components. The new paste volume fill was tracked on Online- SPC system. This was total breakthrough in paste printing process towards almost zero-defect at 5dx inspection gate.

***7. MIMOS – Kuala Lumpur (Jul’07- Nov’10)***

Role as Master Black Belt in teaching , mentoring projects and deployment of 6-sigma. Supervise 3 black belts. Provide strategic input to Senior Leadership Team (SLT) towards making 6-Sigma a success within the organization .Design/implement supporting systems to sustain growth/development of the critical mass in the long term.Setup Council to assess/certify SS projects.

Total of 46 GB and 7 BB projects have been completed as of Sep’10 . Personally have coached 31 GB and 4 BB between 2007-2010.All projects follow either DMAIC or DFSS-DMADV track. About 70% of the projects are DFSS type. Have strategically aligned 6-Sigma projects in the Software Development and Central Engineering division towards successful achievement of CMMI Level-5 in 2009. 12 GB and BB projects have enabled successful acceptance of IP’s.

Prominent 6-sigma projects with excellent results are from a) Precision Agriculture – N,P, K, pH sensors b) Wimax related design /development c) Fish Forecasting System d) 360 deg Surveillance Systems. Provide statistical/problem solving support to research/engineering division on product development/qualification/integration.

Phase 1 : Change management have been completed between 2007-2009 ie MIMOS researchers/engineers have accepted 6-sigma Methodology-DMAIC and DMADV. Received MBB certification by Motorola University in 2009. And Triz certification in 2009.

Phase 2: In progress. Have obtained proposals from consultants on design/customization of 6-Sigma + TRIZ Curriculum(Sigma-I) for internalization.

***8. Vista Point Technologies – Bukit Raja-Kelang (Dec’10- Mar’12)***

VPT assemble various types of mini cameras for handphone. Customers are Apple, Microsoft, Toshiba and Motorola . Manufacturing platform consist of SMT, FOL and EOL . Photo sensors (at wafer level) are singlulated and attached on PCB , lens/barrel , flex circuit are mounted and tested .Capacity for Bukit Rajah plant is 150k units/day.

Role as Master Black Belt in training , mentoring projects and deployment of 6-sigma single handedly for 2 sites : Malaysia-Bukit Raja and China- Zhuhai-Doumen

Provide strategic input to Leadership Team towards making 6-Sigma a success within the organization .Design/implement supporting systems to sustain growth/development of the critical mass in the long term.

Currently working on Change Management Plan.Back to basics in TPM being deployed..Have supported both Malaysia and China plant on 50/50 basis for training/coaching/certification. Projects were all very technical/complex focusing on Yield improvement and require intensive coaching for success.Have trained 20 GB project members in total.For China – 6 Green Belt projects completed successfully . Malaysia – only 2 GB projects were completed successfully for the programme was halted in Dec ’12 . 6-Sigma programme was stopped temporarily to allow factory renovation/expansion for new Apple products targeted at 2.3 million/week.

***8. ON-Semiconductor -Kuala Lumpur (Apr’12- Present)***

Charter is to revitalize 6-Sigma DMAIC programme for Asia Region :Malaysia, Philipines & China,. Liaise with site champions to spur competency development towards breakthrough in problem solving.Solve critical customer 8D and Maverick Lot issues.

Provide strategic input to Leadership Team towards making 6-Sigma a success within the organization .Design/implement supporting systems to sustain growth/development of the critical mass in the long term. Re-engineer new 6-sigma curriculum by aligning with ASQ & AIAG standards for : OB, YB, GB and BB.

Conduct BB training across sites, Coach and certify BB candidates.Have trained 32 BB’s.

Drive the organization towards aligning 6-sigma projects with CTQ issues as identified from both VOC/VOB. Facilitate intensive ‘project coaching’ toward achieving hi impact results.

Set strategy and charter Roadmap towards achieving 50% GB competency amongst engineers within the next 3 years and achieve 1: 20 BB to engineer ratio for effective consultancy at all times.

## Awards

Top student - general science, SPM (STPD), Total Customer Satisfaction (TCS - Motorola), Patent Award(USD 1500) - Motorola, Reuse Technology Award(RM 620) - Motorola, Engineering Showcase – Technical Paper Presentation - Motorola, Member-Scientific & Technical Society – Motorola, Cpk Improvement (RM 1000)-Motorola. Global SPS(Solectron Production System) Award-Winner of USD 10,000- Solectron . Master Black Belt Award –MIMOS-Rm 5000.

## Professional Training and Competencies

6 Sigma Green Belt, 6 Sigma Black Belt by ARGI , 6 – Sigma Black Belt by ASQ , Lean Manufacturing – Mc Kinsey (USA). Design For Six Sigma (DFSS) – Sigmax (USA). 6-Sigma Master Black Belt by Motorola University.Certified TRIZ Practitioner.

## Personal Strength

Perseverance, determination & highly disciplined . Excellent drive for results, high desire to learn & excel . Analytical/systematic in problem solving. Highly observant of principles/ethics. Innovative.

## Hobbies

Travelling, reading, motoring - car enthusiast , model car racing, badminton, jogging,

## Remuneration

## Current :

## a)RM 19986

***b) Stock options***

***d) Bonus :1.5 -2.0 months***

***Notice Period : 2 months***

## References

Available upon request