



Alagendran Ampalakam

*B. Eng. (Hons) Electrical & Electronics (Control system), Liverpool John Moores University,
United Kingdom.(Uk)*

A positive spirited individual, with stone-hard determination to succeed

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Bringing 10 years of solid experience in various areas within Electrical & Electronics field. A cooperative professional with leadership potential and excellent presentation skills. With in-depth knowledge in operating and maintaining Electrical machines/Equipment, and other Electronics product as well. Proficient in Technical writing and documentation. Key strengths include;

- Project management
- Equipment testing
- Technical drawing
- Control system
- Power system analysis
- Electrical machines
- Electrical testing/analysis
- Report preparation
- Documentation

CAREER OBJECTIVE

Seeking a challenging engineering environment to put my experiences and skills into productive use.

PROFESSIONAL EXPERIENCES

Application Engineer

- Organization: Besi Apac Malaysia Sdn.Bhd. .(July 2010 – Present)
- Nature of Business :Machinery(Machines supplier for Semiconductor Industry)
- Department: PGC Application(Electrical system)
- Responsibilities:
 - Working on different series of machine and product testing.
 - Perform quality/verification testing on 3 phase pumps, valves ,sensors, relays in this automated manufacturing environment.
 - Perform cable preparation and layout in the machine for new optional electrical parts requested by customers.
 - Analyze relay control panels for electrical and software problems

- Built collaborative rapport with Assembly Engineer to effectively conduct I/O system and human-machine interface troubleshooting
 - Preparation of Electrical procedure for Installation test
 - Reading electrical design specification and technical drawing for each project.
 - Perform grounding test for entire test by using special grounding equipment to ensure machine is under safety control before shipping to customer site.
 - Prepare the report and proper documentation of the project before internal buyoff and Direct shipment of the machine.
 - Coordinate with staff and managers to complete projects on time and within the budget.
- **Accomplishment of Project in Besi Apac Sdn Bhd in 2011.**
- Prepared work instruction for Molding machine with Fico standard.
 - This work instruction carry out
 - Method to prepare Electrical cables .
 - Method to Install the wiring into the machine
 - Method to do the layout and wiring housekeeping in the machine
- **Accomplishment of Training in Besi Apac Sdn Bhd.**
- 2200 Evo Twin-Head Multi-Chip Die Bonder Adjuster training.
 - Completed in house training for three months
 - Training includes of Die bonding machine assembly, machine process ,and machine operation.

Technical competencies

- Reading technical drawing
- Project Report and presentation
- Microsoft Windows Linux application.
- Electrical wiring tools handling.
- Knowledge in both machine operation and process of 2200evo Twin –Head Multi chip.-

STW and SPT Equipment Engineer

- Organization: Western Digital Malaysia Sdn.Bhd.(December 2005-July 2010)
- Nature of Business : Hard Disk Manufacturing
- Department: SPT Equipment Group.
- Responsibilities:
 - Provide technical assistance in installation and maintenance of company equipment
 - Develop improvements to enhance equipment reliability and scalability.
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 - Develop improvements to enhance equipment reliability and scalability.
 - Develop preventive maintenance procedures to reduce equipment failures.
 - Monitor equipment performance and suggest improvements
 - Work with management to develop equipment specifications for next generation products.
 - Guide, motivate and lead associates/technician to achieve a common objectives set up by the department.

- Analysis on Error log file from testers to find out root cause of the failures.
- Deal with testers failure trouble shooting and ensure performance of equipments to be the topmost priority and ensure quality product being produce all the time
- Identify areas for improvement on testers and ensure continuous improvement in cultivating trouble shooting skills.
- Testers maintenance system design to ensure proper calibration and maintenance of equipment
- Ensure all related documentation are properly updated, organize and good keeping of such document
- Prepare training syllabus for equipment in charge, plan and provide training to fellow colleagues to improve their skills.
- Communicate with vendor or supplier as a method of information and technology exchange.
- Optimize testers performance through the implementation of efficient preventive and line maintenance program

■ **Accomplishments(Projects)**

- Backup Power Supply for HDS system.

Objective

- To have additional Electronic circuit to hold the DC supply via back-up battery to park the Head stack during Power Failure.
- To prevent HSA park at MD upon power interruption.
- To eliminate media and head stack scrap cost during power failure.

Procedure

- When power failure is detected, an Electronic switch is activated and an instant power is supplied from external battery supply to park the head Stack to the ramp prior to the HDA spindle stop.

- Drive warm up project.

Objective

- To eliminate HDA warm up via spindle motor
- To reduce overall cycle time in Seeder
- To warm up the HDA to desired temperature within 1 min to 2 min to embed the warm up during spin up process.
- To have a low rate thermal expansion on HDA prior to the spiral write process.

Procedure

- When the HAD is detected via HDA IN PLACE sensor in clamp position, the Halogen Bulb on HDS cells will be turned “ON” automatically and the Halogen Bulb will remain “ON” for few minutes to warm up the HDA to 30°C (the desired temperature for instant warm up can be achieved via an Electronic Timer adjustment or setting based on products).

STW Equipment Technician.

- Organization: Western Digital Malaysia (WDM) Sdn.Bhd.
- Nature of Business : Hard Disk Manufacturing
- Department: STW Equipment Group.
- **Responsibilities**
 - Responsible on maintenance and troubleshooting (Electronics and Mechanical) STW & S4W testers.
 - Ensure all STW & S4W machines are ready for everyday production output..

- Identify areas for improvement on equipment and ensure continuous improvement in cultivating trouble shooting skills.
- Assisting the team in downtime issues and daily reporting records.
- Performed daily preventive maintenance to all S4W machines and ensure all related documentation are properly updated, organize and good keeping of such document.
- Involved in special projects assigned by immediate supervisor in order achieve good performance of the testers.
- Lead the junior technicians in Lead or work coordination with a group of technicians and guide them in all equipment related issues, such as set up new testers in production line.
- Performed Failure Analysis on Failure Hard disk based on respective failure code.
Analysis begin with visual inspection and followed by signal wave and amplitude scoping .

Production Technician (February 2003-December 2005)

- Organization: Flextronics Technology Shah Alam Sdn.Bhd.
- Nature of business: Manufacturing
- Department : Production
- Reason for leaving: Better carrier prospect
- **Responsibilities**
 - To assist the Product Engineer to achieve line yield in accordance with unit goals.
 - To identify, check ,analyze and repair defective Sony Ericsson and Motorola cellular
 - To implement and monitor improvement on corrective action
 - Record all investigation and troubleshoot finding action for further reference
 - Submit daily activities summary report.
 - To proactively provide suggestion on how to improve and prevent production fallout
 - Utilize RF and electronics equipment such as Spectrum Analyzer Agilent E44028B, Digital spectrum communication analyzer system-Motorola R266, Oscilloscope –textronics TDS ,3012
 - Knowledge on mobile and telecommunication(GSM & CDMA technologies) and other cellular.

TRAINING

Certified Training

- Certified of competence in storage technology. Successfully completed an 80-hours course and passed the examination. Awarded by Singapore Polytechnic(**2007**)
- Certified Training in Process Quality Course (SAP).Awarded by Besi Apac Malaysia Sdn.bhd
- Completed Training program in Programmable Logic Controller(PLC).Conducted in Federal Institute Of Technology by Sharp cooperation.(**2001**)

EDUCATION BACKGROUND

2013	M.Eng. Power system Engineering University Malaya, Malaysia In progress
2009	B. Eng. (Hons) Electronics & Control System Liverpool John Moores University, Byroom Street, UK Grade: First Class Honours Year completed: 2009
2008	Higher Diploma in Electrical & Electronics Engineering Institute Megatech (Malaysia) Grade: Second class upper Year completed -2008
2001	Diploma in Electronics Engineering F.I.T (Federal Institute of Technology) Grade: First Class Graduation Date: 2001
1998	Sijil Pelajaran Malaysia Sekolah Menengah kebangsaan Seksyen 18 Shah Alam,Selangor Major: (Science)

CURRICULUM ACHIEVEMENTS

Participated in futsal tournament in Liverpool John Moores university	(2009)
1st Runner-up in the Sunway – MAPCO Inter college Soccer Tournament	(2000)
Committee member and Vice President of the Tamil Language Society	(1997 -1998)
<ul style="list-style-type: none">■ Sekolah Menengah Kebangsaan Seksyen 18, Shah Alam, Selangor■ Represent school for the "Inter School Tamil language quiz Competition"■ Organize the “Inter school Public Speaking contest”■ Held various motivational seminars for students bound to sit for important exams, i.e.SPM and PMR.■ Organize and held the annual Indian traditional and cultural show in the school	

SKILLS

Computer related

Handling Computer Hardware	[Advanced]
MS Office (PP, Excel, Word)	[Advanced]
Windows Linux system	[Advanced]
Electronic workbench	[Advanced]
Math lab	[Advanced]
Programming C language	[intermediate]
Traxmaker & Circuit Maker (Circuit and PCB design)	[intermediate]

Language

English - Written & Oral	[Excellent]
Bahasa Melayu – Written & Oral	[Excellent]
Tamil – Written & Oral	[Excellent]

PERSONAL STRENGTH

- Excellent interpersonal communication and presentation skills.
- Extremely hardworking and able to work under pressure.
- A team player and able to collaborate with teammates for a common goal.
- Flexible person that able to perform multitasking
- Not hesitant to walk an extra mile for the goal achievement of organization

OTHERS

Current Salary	RM 4500
Expected Salary	RM 5500 Negotiable
Availability	2 month notice
Willing to travel	Yes
Willing to relocate	consider
Possess Transport	Yes

REFERENCE

- Name :Ted Tan
Tel (Mobile) : 0122891350
E-mail : Ted.Tan@besi.com
Position : Section Head
Company : Besi Apac Malaysia Sdn Bhd
- Name :Sivakumar Krishnan
Tel (Mobile) : 0122068952
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Position : Trainer
Company : Besi Apac Malaysia Sdn bhd
- Name: Prithiviraj Natarajan
E-mail :Prithiviraj.Natarajan@my.abb.com
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Position: Senior Design Engineer
Company : ABB Malaysia Sdn.Bhd

