

Nanthakumar Dorai-Raj

Seeking a challenging role in Vision/Opto Engineering, Yield, Process Improvement or Production Engineering

Career overview

Engineering graduate specializes in optical engineering with keen interest in precision engineering and process. Having gone through 2 mergers in a span of 10 year (Minolta -> Konica Minolta -> Sony), has acquired good experience in change management. Meanwhile 2 years stint in Monier provides good exposure of lean principles as a holistic approach in cost reductions. With Masters Degree and equipped with good technical expertise in process improvement and precision engineering, Nanthakumar is ready to take on a similar or challenging roles in the manufacturing industry.

Personal details

Email : nantha3256@yahoo.com
Contact No. : 012-6243051
Date of birth : 8 February 1977

Education

2012- 2014

MSc in Biomedical Engineering, University Putra Malaysia

Thesis title: Side viewing micro-endoscope optical system with achromatized lens for in-vivo fluorescence imaging.

1997 –2000

B.Eng (Hons) in Mechanical Engineering, University Sains Malaysia

Trainings

- 1) Lean Principles in Heusenstamm, Germany (2011)
- 2) Lean Principles in Chienes, Italy (2011)
- 3) Failure Mode Effect Analysis (FMEA)
- 4) Design of Experiment (DOE)
- 5) Poka-Yoke (Fool Proofing)
- 6) CATIA CAD/CAM
- 7) Optical and Mechanical unit development in Shin Osaka, Japan (2006)
- 8) Optical and Mechanical unit development in Sakai Osaka, Japan (2004/5)

Capabilities

- 1) Expert in FMEA, DOE, Lean Principles and Methodology and other key manufacturing tools.
- 2) Strong proficiency in MATLAB, OSLO Lens Design Program, Solid Works and IDEAS
- 3) Strong proficient in Microsoft Office Tools

Employment

Monier (M) Sdn Bhd

Position : Junior Operational Performance Assistant Manager
Department : Innovation & Performance
Duration : 29 October 2010- 22nd October 2012
Reason for leaving : Pursue full time Masters and get back into manufacturing after Masters

Job Scope

- Led a small team in identifying potential cost saving opportunities during diagnostic phase in various plants.
- Responsible in implementing and tracking cost saving initiatives.
- Responsible in preparing monthly reports of projects status to top management in Europe.
- Conducted lean tools and methodologies (7 wastes, SMED, SOP and etc) training for plant management in order to sustain and improve performances.

Achievements

- Saved more than RM 900K in 3 manufacturing plants by utilizing lean principles which consists of 3 main pillars namely people, structure and process.
- Led overseas diagnostic team in finding cost savings initiatives in China and Norway plants.
- Creating awareness among plant managements of the importance of behavioral change for long-lasting performance improvement.
- Instilled the importance of leadership to plant management in order to improve plant performances.

Sony Precision Engineering Malaysia

(Merger of Minolta -> Konica Minolta -> Sony)

Position : Senior Product & Process Engineer
Department : Manufacturing Engineering/ R&D
Duration : 1 September 2000 – 28 May 2010
Reason for leaving : Company closed operations in Malaysia

Job Scope

- Led a small group of product development team in products transferred from Japan.
- Develop and testing new of mechanical and optical product until achieved targeted performance for mass production (product/process characterization).
- Facilitate alignment with development team to develop adjustment machines in term of software and hardware evaluations for product performance improvement.
- Administer continuous improvement program (KAIZEN) for products in terms of yield and product performance (using PFMEA, DOE, and POKA YOKE).
- Monitor production performance using statistical tools such as SPC & Process Capability.
- Design simple jigs using CAD/CAM (IDEAS, CATIA).
- Management of quality issues raised by customers.
- Preparation of quality and performance reports.

Achievements

- Transfer prototype products from Japan to Malaysia including knowledge transfer.
- Improve overall yield to > 99.5% by utilizing holistic approach of improving operation skills, machines performance, materials quality and products design.
- Set-up statistical tool for product performances monitoring by production team.
- Modify and develop Standard Operating Procedures (SOP).
- Designed simple jig to prevent assembly mistakes by operators.

Salary and availability

Last drawn salary : RM 5,500.00
Expected salary : negotiable and compatible with market rate
Availability : Available immediately (Masters completion on 14 January 2014)

References

Mr. Tan Wah Soon
Division Manager
Sony EMCS (M) Sdn.Bhd
H/P: 012-38558389

Mr. Tomohiko Kawaji
General Manager of Manufacturing Engineering
Sony Japan
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