



CURRICULUM VITAE – RATHEESH KELOTH

2017 – Present, Senior Engineer, Sigra Pty Ltd, Brisbane

- Re-joined Sigra
- Field operations
- Equipment development

2014 – 2017, Applications Engineer – Mechanical, WellDog Pty Ltd, Brisbane

- Designing and drafting of downhole and surface equipment for permanent monitoring and other well completion products.
- Analyse test data and technical reports to determine if a new design or a current product meets functional and performance specifications
- Prepare technical reports, develop SOPs and provide technical assistance to the operations team.
- Liaising with customers; both internal and external, ensuring specifications and expectations are met.
- Managing the NCR system to meet the Quality Management System which includes investigation and reporting.
- Assist with quotations, tender estimations
- Monitoring and following up on project status, including liaising with manufacturing sub-contractors, suppliers and internal stakeholders

2007 – 2014, Field Engineer, Sigra Pty Ltd, Brisbane

- Conduct various reservoir testing and measurements and analysis. In-situ stress testing, Permeability testing, Coal core desorption and shrinkage
- Transducer and field data logger installations for well monitoring and other field operations
- Analyse the results and prepare the final report for mining and coal seam methane applications.
- Research and development of new products needed in the field of mining and oil & gas projects. Develop product and process innovations with goal of maintaining continuous improvements.
- End to end design which includes concepts, sketches, calculations, 3D modelling, creating of detail drawing for machining and assembly, datasheets, sourcing & selection of parts as well as prototyping and testing.
- Assembling and testing of well control systems for borehole drilling activities.
- Geophysical laboratory testing and reporting of rock samples (uni-axial, tri-axial, hydrostatic fragment test, Brazilian disc test.. etc) as well as mechanical hardness tests (Brinell, Vickers, etc)
- Calibrate pressure transducers and flow meters for down hole and laboratory application.



2004 – 2007, Tool Maker / Designer, FUYU Corporation Ltd, Singapore

- Performed all aspects of mould making, including design and manufacturing of new moulds
- Takes trials and trouble shooting and carries out maintenances if required
- Plan and prepare details of mould sub parts
- Study the quality report and carry out corrective actions
- Process planning of the manufacturing details.
- Training of apprentices and evaluates job performances
- Conducts engineering changes on new and existing tools.

2001 – 2004, Assistant Engineer – Tools, Sermo-PM India Ltd, Pune, India

- Design and manufacture of plastic moulds
- Input part drawings and makes proposal for modifications
- Plan and follow up on machining of mould parts
- Co-ordinate with quality control department on piece parts
- Producing Test Plans and reports
- Estimation and costing of mould sub parts

1999 – 2001, Trainee – Tool Room, LUMAX Industries Ltd, Pune, India

- Receive and study tool design drawings
- Operate all conventional machines and fitting
- Assembly of plastic moulds,
- Assist tool designers and engineers in fixture and jig development

Qualifications and Professional Memberships

- University of Southern Queensland, Bachelor of Engineering (Mechanical), 2009-2016.
- Kerala Government Polytechnic, India, Diploma in Tool and Die Engineering, 1996-1999.
- Short courses:
 - Site Safety Supervisor Course (S1, S2, S3).
 - Generic Induction Coal Core, Basic Fire Fighting.
 - Wellsite permit Rev 3
 - DCGI
 - First Aid and CPR Certificate.
 - 4WD defensive driving course.
 - Skills Evaluation Certificate in Precision Engineering (ITE Singapore).
- Relevant skills:
 - AutoCAD
 - SolidWorks
 - Unigraphics
 - Microsoft office suite
 - QGIS-Intermediate