

Presenters

1. **Horstmann E Eckhardt** Manual labour as a core element in an automated packing line
2. **Le Roux YE Yolandi** Supply chain analysis and improvement - towards high quality ripe and ready avocados
3. **Tafesse A Alemayehu** Route optimisation for the South African Post Office
4. **Louw NJ Ninon** Analysis and optimisation of a contract help desk function
5. **Enslin S Stefan** Simulation-based optimisation to solve a car sequencing problem with stochastic rework
6. **De Andrade VJ Vincent** Strategic planning for the detonator production process at Sasol Dyno Nobel

Comprehensive list of project titles

7. **Abdool Razak O Oz** Analysis and optimisation of the WorldNet Express distribution centre
8. **Ahmed F Farah** Optimisation of the productivity of the order picking process at the Agrinet Samrand warehouse
9. **Axsel C Chanell** Strategic location modelling of mobile clinics in rural South Africa
10. **Balcou C Candice** Optimisation of the sorting capability of a 3PL distribution centre through the establishment of an optimal percentage ratio of the various sorting categories
11. **Bester IH Imogen** Multi-depot location-routing modelling for a postal delivery network
12. **Boer MH Mari** Optimizing and balancing the internal flow at Highveld Milling
13. **Botha J Jason** Development of an optimised shipping container placement strategy to be used in a shipping container yard
14. **Botha M Marnus** Business and IT alignment through IT governance - an ITIL knowledge transfer solution for South32
15. **Briedenhann JEC Eckhard** Vehicle activity clustering using a fuzzy-neighbourhood density-based spatial clustering algorithm - knowing where you came from can make all the difference to where you're going
16. **Britz D Doné** A re-design of the analytics framework for the procurement department of Agrinet Limited
17. **Cloete ME Mia** Barley supply chain optimisation for the South African Breweries
18. **Coetzee G Gerhard** The feasibility and cost analysis of an ERP system at Tuscan Stone
19. **Coetzee N Natalie** The optimisation and standardisation of DBCM supply chain processes at Voorspoed Mine
20. **Coetzer M Martin** Throughput optimisation of a chicken abattoir
21. **Cronje N Nadia** Business process optimisation
22. **De Jager AS Anita** Application of the service engineering methodology in a tool and equipment hiring company
23. **de Klerk BM Brett** Warehouse optimisation for Amrod
24. **Dissanayake TP Tharaka Prasanna** The research and development of inventory management techniques to improve business efficiency: an HVAC perspective
25. **Do Nascimento CMM Chantelle** Conceptual application-based design for decision making and consumer communication
26. **Du Plessis D Danielle** Non-returnable bottle loss reduction on a packaging line at South African Breweries, Rosslyn
27. **Du Toit JJ Jean** The optimisation of the main packaging line at Adcock Ingram: a mathematical modelling approach
28. **Du Toit T Trudie-Elize** Evaluating the impact of continuous slotting on distribution centre operations and warehouse efficiency
29. **du Plooy JEM Lizca** Design and development of a reporting tool for the pro-active evaluation of B-BBEE compliance in procurement initiatives and legislation
30. **Du Plooy NT Nicole** A systems engineering approach to develop requirements for C-More for the integrated logistics support elements: maintenance, logistics and support personnel, training and training support
31. **Eleftheriades AAM Alexandre** Improving the facility layout and management of the waste treatment process at A-Thermal
32. **Ellis O Olga** Facilities design: a recycling plant for high-density polyethylene pipes
33. **Erasmus JT Johan** Productivity study on aluminium extrusion presses in Cape Town plant

34. **Fraser K Kimberley** Business intelligence application solution for Cutting Edge Commerce
35. **Fulcher JC Jenna** A feasibility study on the implementation of a digital mailroom for UTi
36. **Gabuza VST Vezzi** Hub location model for the South African Post Office network
37. **Graaf MC Megan** Facilities planning at Vector Logistics
38. **Groenewald S Steven** Design of information system for a wifi installation company
39. **Hancock KJ Kirsten** The analysis of receiving operations within a distribution warehouse using simulation
40. **Huisamen R Reinhard** Business efficiency improvement and process optimisation of Dessertworx
41. **Ibanez TL Tamara** Optimisation of a herb farm's packhouse processes
42. **Jansen I Iris** The 2020 African supply chain: achieving strategic and operational shift from organisational centric to collaborative supply chains
43. **Jansen van Rensburg M Monica** Improving paint shop processes at BPI Manufacturing to reduce waste
44. **Jewell M Melissa** Towards the development of a comprehensive postgraduate registration system for the University of Pretoria
45. **Jose R Rita** The modelling and optimisation of the vector logistics distribution network
46. **Kharbai A Adnaan** The value of the parcel delivery service at the South African Post Office
47. **Khoza BS Bongani** Development of a user-friendly die management system
48. **Koen C Corlene** Roadmap to obtain control over the forecast-to-finished goods process
49. **Kruger MS Madelein** Optimisation of the Student Administration department at the University of Pretoria
50. **Langa KV Vince** Optimisation of the fresh chicken process at Astral Poultry (Pty) Ltd Olifantsfontein Factory
51. **Lawrenson AR Andrea** Developing a methodology to calculate and quantify multi-echelon safety stock levels in South African fast moving consumer goods environments
52. **Leso KMD Katlego** Improving project monitoring & control within a South African public enterprise
53. **Lombard S Stephanie** Analysis and optimisation of pallet stacker utilisation in an automotive warehouse by means of a Simio simulation study
54. **Mabe KM Keitumetsi** A business model for a recently started business presented in a business plan
55. **Mahlangu E Yvette** Extending the operations excellence model regarding strategic intent
56. **Mahlangu IN Nkululeko** Medium fermentable malt distribution network optimisation for the South African breweries
57. **Makhuba VS Vutivi** Cost analysis under risk conditions
58. **Makiwane S Siyasanga** Simulation model of Avon Cosmetics Call Centre
59. **Mavrikis A Alexi** Strategic planning for capacity expansion: the expansion plan for Powerz-On
60. **Menssink CW Christiaan** Polo Beads jewellery factory facility plan
61. **Mentz JG Johann** Development of a mobile money transfer mechanism for the South African PostBank
62. **Meston GN Garry** A process improvement solution to support ISO 13485 at Ceramica Dental Laboratory
63. **Moti MA Aadil** Evaluating and improving the impact of crate control on customer service
64. **Munshi M Minaz** Investigation and improvement of customer service within the retail outlets of the South African Post Office
65. **Ngobeni KSC Koketso** Alleviating bottlenecks in a job shop system using simulation
66. **Ngwente S Sive** Feasibility study at Wispeco's Woodlook plant
67. **Nortje A Andre** Improved layout and storage of the inbound warehouse at Ford SA
68. **Nortje MF Margie** A business design for Shepherd Life
69. **Oickers T Tanja** Determining the optimum number and location of spare transformers for South African power stations
70. **Olivier TB Tasmyr** Optimisation of Old Mutual's grid computing schedule
71. **Patel JM Janakkumar** Facility layout optimisation at Kit Kat Cash and Carry
72. **Pattersob BG Bradley** Reduction of bottle breakages on SAB Rosslyn production Line 1
73. **Petrou N Nicholas** KPI development and tracking/reporting tool implementation at Sishen mine
74. **Pieterse E Elme** Optimisation of the delivery process at Agrinet
75. **Prins D Dihael** Simulation of buffering times for slag pots at Columbus Stainless Steel
76. **RajhGopaul LL Leshanti** Design of the TuksBaja production facility assembly line
77. **Raphala MP Mahlatse** The improvement of production management at Sinjana Engineering
78. **Roos E Elizmari** Improving the raw material testing cycle time by implementing lean principles
79. **Roos N Nicole** Optimisation of the South African Post Office inventory issuance problem by distribution center location analysis
80. **Schloss A Aqeela** Decreasing the total job order cycle time of a wagon producing factory
81. **Schnetler M Martinette** A systems engineering approach to develop C-More requirements for ICT and their support facilities and utilities
82. **Smit J Joan** Assembly line layout and material handling equipment comparison
83. **Smith MH Martinus** Economic feasibility of improving levels of service
84. **Steenberg K Kelly** Identify the key improvement opportunity in a service warehouse by utilizing value stream mapping and Kaizen principles
85. **Steenkamp AF Aldi** Optimisation of Speedy Drycleaners
86. **Stevens BPL Bryton** A methodology for evaluating the fitness-for-use of the OpenStreetMap data for complex network analysis of metropolitan roads in South Africa
87. **Steynberg L Liezi** The cost impact of crates within a company and usable alternatives
88. **Strydom C Carienne** Pricing decision support to optimise market penetration
89. **Subramani SS Santosh** Facility plan of a vehicle servicing unit
90. **Suliman HA Hajar** Labour scheduling problem: a case in the South African Post Office retail business unit
91. **Tatomir M Marija** An Excel based budgeting model developed for the City of Johannesburg
92. **Taute M Madale** Workflow solution for multiple departments and their requirements
93. **Taylor BS Brittany** Facilities planning at a locomotive manufacturing workshop
94. **Van Aswegen M Megan** Optimisation of KFC's product- and service flow by redesigning the fast forward station
95. **van Aswegen TE Tanya** A business engineering model for Woodlam-Interzign
96. **van der Merwe GH Gavin** Quality and efficiency improvement within a scrap receiving and sorting facility
97. **Van der Walt H Hanneke** Application of the unit commitment problem for a South African power utility
98. **Van der Zwan J Japie** Reliability centred maintenance on wind turbines
99. **Van Eeden GR Gideon** A business plan and proposed design of a micro brewery
100. **Van Heerden DM Marnus** Improving inventory management and storage layout in a timber warehouse
101. **Van Heerden R Ruan** Improving ore transportation efficiencies at Lonmin
102. **Van Helsdingen IR Ian** Analysis and optimisation of G4S cash-in-transit transport service operations
103. **Van Laar ZJ Zane** Improving part collection and handling efficiencies at PUTCO
104. **Van Staden DWJ WJ** A slotting solution to reduce pick time in a pharmaceutical warehouse
105. **Van Wyk AJ Albert** Optimisation model for outbound bio-ethanol distribution
106. **Venter A Anica** Feasibility study for a feed mill plant
107. **Venter HA Helga** Digitisation of personal loan applications for new-to-bank customers
108. **Venter M Mari** Improvement plan for an aluminium boat chassis manufacturing plant
109. **Vermeulen E Euodia** Life cycle costs of a paediatric prosthetic knee
110. **Zimema LP Lesego** Selecting the optimal transport solution between mail centres of the South African Post Office
111. **Zulu ALN Andile** Effect of integrated sales and operations planning
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