

2020 Final Year Project Definition Form

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| Project Title: Miniload Automated Storage and Retrieval System (ASRS) Optimisation | | | |
| Company details: <ul style="list-style-type: none">• Company Name - SPAR Group Ltd;• Address - 20 Rudo Nell Rd, Witfield, Boksburg, 1459;• Website - https://www.spar.co.za/Home | | | |
| Company background: <p>The SPAR Group is a Retail FMCG company with over 55 years of trading. There are 6 distribution centres (DCs) across South Africa servicing over 850 retail stores. This project will be based at the SPAR South Rand DC in Boksburg. It is an operational environment with over 700 working warehouse and transport personnel.</p> | | | |
| Project description: <p>SPAR South Rand has a unique piece of warehouse automation technology called a Miniload ASRS. It consists of computer-controlled systems that automatically store and retrieve products from set locations with accuracy and speed.</p> <p>The selected student would optimise the Miniload decanting and picking processes by applying IE techniques and tools. Potential applications would be a Product Range Review, Queuing Theory, Tote Optimisation, etc..</p> | | | |
| Industry mentorship: Yash Patel (SPAR Industrial Engineer) | | | |
| Industry mentor contact details: | Yash Patel | Yash.patel@spar.co.za | 084 500 1537 |
| Project topic application process: <p>Applicants to email their CV's and motivational letters to Yash Patel. Selected applicants will be subject to an interview conducted by Yash and an HR representative. Application deadline is 15 February 2021.</p> | | | |
| Any other relevant information: <p>The ideal student should be comfortable with simulation modelling and IE technical skills. The successful student should be comfortable in occasionally travelling to SPAR's DC based in Boksburg, Johannesburg.</p> | | | |