

Herman Dippenaar

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| Introduction |

I am Herman Dippenaar, age 41, currently residing in Middelburg, Mpumalanga, South Africa. I was employed by Columbus Stainless as a Projects Engineer (Mechanical) for 8 years. I started my employed with them in 2004 as a mechanical technician. I am assisting MP Induction Hardening & Engineering on an ad hoc basis to set up their induction hardening machine to harden shafts and bushes and supplementary to that I am also informally designing and 3D-printing various parts for customers whilst running a B&B together with my wife.

I am a practical minded individual and quick learner, willing to start anywhere and work my way up as I gain more experience. As pleased as I feel when having successfully implemented an engineering solution to a problem during the day at the office, I am equally satisfied when having restored or repaired any mechanical piece of equipment in my private capacity. My first interest is always something that is mechanical in operation, especially when automotive related.

My mechanical engineering background lets me comfortably liaise with like-minded people in the profession whether it is my customers, in need of a solution, or a contractor required to execute the task.

I am capable to confidently work with most hand- or power tools at home and do not shy away if a "hands-on" approach is required to get the job done at the office or on site. I also volunteer at my local church.

I am keenly seeking employment in the UK (North West area preferably).

I can start employment as soon as the visa process allow and have no salary preference apart from that required by the visa application. I currently have no notice period as I am actively seeking new employment. I am in the UK until 03 September 2023.

As a self-motivated individual, I believe integrity is vital in all facets of life and drive myself to align my goals with those of my employer.

I believe that when you follow your passion, working hard comes naturally and the bonus is the people you meet along the way.

Key Deliverables

- Team player - Listening to team member inputs and allow them opportunity to explain their suggestions.
- A practical minded individual with determination to see even less successful projects thru to the end – Installation of a 30-ton Evaporator vessel that was manufactured incorrectly. The old unit ended up weighing 58-tons (28-tons as per drawing) and project duration was planned for 10-days (took 20-days due to vessel errors and delays).
- Take individual assignments head-on to deliver successful mechanical projects on-time – A layout change of the Packing Line was required during the design phase of the Banding Line to maintain its packing length but with half the available floor space than originally planned.
- Managing on-site contractors to achieve project implementation and start-up deadlines within budget - Managed a R2.75 million project from the design phase, manufacturing and installation & commissioning of Banding Line 4 at the Final Lines taking stainless slits coming off the newly constructed Slitting Line 5.

Key Skills

- Supervision and taking charge of contractors for fiberglass acid storage tank, 40 cubic meters volume, installations, and HDPE pipe installations to convey acids and process water.
- Supervision of contractors for relining of annealing furnaces and refurbishment of non-asbestos carousel bodies and other related capital mechanical projects.

- Compiling “Bill of Quantities” and enquiry documents for small civil projects and resource management thereof.
- General exposure to pumps, fans, valves, and pipelines.
- General exposure to hydraulic systems (power packs, valves, piping) and fault finding.
- Reading and updating of engineering drawings to manufacture and or modify parts/assemblies.
- Compiling a scope of work for capex applications and managing budgets to end of project.
- Manage Engineering Systems (MES), e.g., JD Edwards (Peoplesoft), Microsoft Office, NEC4 Engineering and Construction Contracts (basic knowledge), Self-training on Autodesk Fusion 360 Software and 3D-printing (delta printer currently).
- Design for manufacture and 3D print parts (various brackets, hinges, clips, general household items and personal hobby – restoring old go-karts) on a small scale using typically PETG or PLA for myself and customers.

Professional Experience

03/2022 to present

Middelburg, South Africa

Self-employed

I assisted a company, MP Induction Hardening & Engineering, to set up and commission their induction hardening machine to harden shafts and bushes (designed different sized internal coils used to harden bushes).

I do repairs and restorations to various electrical tools and appliances.

I also do various designs and 3D-printing work for customers, typically the following:

- Stage light adaptors for church stage LED lights.
- Various hinges and clips used in cars (for arm rest covers and general storage covers), fishing boats (for cupboards used inside the boats), replacement feet for camping chairs.
- Retirement gift (replica of a Weir multistage descaler pump used at a Hotmill), general gifts for friends and family (bird feeders, etc.), supplementary parts for my son’s Lego builds (hooks and winch drums, propellers for small DC motors, small excavator buckets, etc.).
- Small gears for clients restoring old machine lathes, garage door motor pinion gears, carburetor adaptors, hooks for tool walls, coffee tampers, replacement handle for coffee machine porters and any item that can be printed and used with either PLA or PETG filament.

01/2019 to present

The Wild Olive B&B, South Africa

www.wild-olives.com, admin@wild-olives.com, [Facebook: The Wild Olive B&B](https://www.facebook.com/TheWildOliveB&B)

Co-owner/Buildings Maintenance

In 2018 my wife and I embarked on a journey to design, build and manage our own B&B on our property in Middelburg, South Africa. I did the design, project planning, room layout and managed the building budget of the 3-bedroom, ensuite units. The exterior of the B&B building was designed to complement the existing house and to have a modern interior feel. Construction started in 2019 and our rooms opened in March 2020, a breakfast room with an open gable roof design (attached to the existing house) was added in 2022, also designed by me. I assisted with the building and finishing works and built the roof trusses myself.

The daily tasks, i.e., taking bookings, servicing the rooms and stock purchases are a shared responsibility, whilst I take care of the maintenance tasks and general upkeep of the buildings. There are two gas boilers to supply hot water, currently we have no “green energy” on the property.

I enjoy running the B&B together with my wife and it is a great way to meet new people and share experiences with people from all over the world that stay with us.

01/2013 to 02/2022**Columbus Stainless, South Africa****Projects Engineer, Mechanical**

My role as Projects Engineer at Columbus Stainless typically was to define a scope of work, manage the tender process and the implementation and commissioning of projects referred to the Projects Department.

- I was part of a four-man team (two mechanical and two electrical disciplines) and a Project Manager to which we reported.
- I was responsible for all the mechanical projects on the Cold Side of the factory, Fleet and Waterplant. I compiled capex documentation, verifying capex criteria, audit project objectives and update drawings for projects as implemented. I was responsible to oversee technical work standards with respect to quality and standards of project installation by own/external resources. Review technical specification documents and update accordingly.

Key Achievements

- I typically had 20 – 25 active projects varying from small scale civil projects to mechanical refurbishments and converting shipping containers into ablution facilities.
- I was assigned the responsibility to manage the design, manufacturing, installation, and commissioning of Banding Line 4 at the Final Lines. In this project I learned about problem solving “on-the-fly” all whilst keeping to the budget and making the start-up deadline.
- I have gained experience on project life cycle management – from conceptualizing a solution to signing off (handover) of the final product.
- I have learned that the success of the project implementation phase is largely impacted by the effort put into the preparation and planning phase.

01/2007 to 12/2012**Columbus Stainless, South Africa****Long Term Mechanical Technician**

As a Long-Term Technician at Columbus Stainless I was required to assist the Plant Engineers with equipment improvements or changes to improve line efficiency and reliability. Ensure equipment drawings are updated and available to assist line team managers with their maintenance tasks.

- I was part of a five-man team, all mechanical disciplines, reporting to the Long-Term Team Manager.
- I was responsible for investigating plant machinery breakdowns by Root Cause Failure Analysis (RCFA), implementing corrective actions required from findings to prevent future failures and managing and implementing engineering change requests, writing scope of work, tender process, project implementation and budget control.

Key Achievements

- In this role I learned to do the leg work on projects that take more time to implement.
- I learned that there is more involved when changing or improving equipment in the plant than just getting it installed and working.
- I learned to liaise with different departments and disciplines to gain information to have a project successfully implemented.
- I realized how I fit into the organization and the importance of doing my job to the best of my ability.

01/2004 to 12/2006

Columbus Stainless, South Africa

Plant Technician

As a Plant Technician at Columbus Stainless I was required to assist the line team managers with spares availability and to update and write maintenance procedures and standard tasks.

- I was part of the plant maintenance team that consisted of two team managers, a planner, a plant engineer and artisans (typically 10 – 12 people).
- I was responsible to implement an LRU-system (Line Replacement Unit) for the plant I was assigned to and assist the team manager on shutdowns to complete maintenance tasks.

Key Achievements

- I gained knowledge of the workings of a manufacturing plant and the involvement of the maintenance required to operate it safely and efficiently.
- I experienced first-hand the difference between the theoretical classroom environment and the real-life working world (industry).
- I learned to interact with the maintenance personnel as well as production personnel who have different goals, working in the same plant.

Prior Employment (South Africa)

I was employed at Columbus Stainless since finishing my diploma studies in 2003 to 2022.

01/2013 to 02/2022	Columbus Stainless	Projects Engineer, Mechanical
01/2007 to 12/2012	Columbus Stainless	Long Term Technician
01/2004 to 12/2006	Columbus Stainless	Plant Technician

Education

- Baccalaureus Technologiae: Engineering - Mechanical (BTMEE), *University of South Africa (UNISA)*.
- National Diploma: Engineering – Mechanical, *Central University of Technology (CUT)*.

Languages

- Afrikaans (Mother tongue)
- English (Fluent)

References

Will be provided on request.