

# GUILLAUME

DE SWARDT



I am an experienced, qualified & strategic thinking **Project Manager** and registered **Professional Engineer** (Electrical) with **8 years** of experience in the **oil and gas, mining, construction** and **automation** sectors.

As a **project manager**, I am focussed on the project's products and ensuring continual justification of the business case throughout each project.

I have shown to be a versatile **engineer** with lead roles for design, manufacturing, installation and commissioning on complex electrical and mechanical projects.

Recently I have gained valuable experience in **business development** where I displayed strong negotiating and problem solving skills.



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## WORK EXPERIENCE

**PROJECT MANAGER**  
**NATIONAL OILWELL**  
**VARCO**  
2014 – Present

I am a project manager and electrical engineer in this dynamic and highly profitable engineering department. I am managing both business development projects and engineering projects. I am exposed to a wide variety of engineering fields and challenges. I have gained valuable knowledge and experience, not only in electrical and automation application, but also in mechanical engineering design and manufacturing principles.

**LEAD ELECTRICAL ENGINEER**  
**BVI CONSULTING ENGINEERS**  
2012 - 2014

I was the lead electrical engineer responsible for LV & MV electrical designs, installations and project support for risk management, progress reporting and cost reporting. The designs were for construction projects, including the design of a 5MW photovoltaic power station.

**ADVENTURER**  
**SPONSORED TRANS- AFRICAN ADVENTURE**  
2012

I took the opportunity to go on a sponsored adventure which consisted of me and my wife taking a ridiculously small and cheap 150cc motorcycle from South Africa to Egypt. We achieved the goal, 2-up, with our entire luggage on one motorcycle, worth only \$600. This was for our honeymoon. -> idoafrika.com

**SYSTEMS ENGINEER**  
**HONEYWELL**  
2009 - 2012

I started my career at Honeywell as a student intern and quickly worked my way up first to a junior engineer and then as project engineer. My responsibility was the design, manufacturing, factory acceptance testing, installation and commissioning of automation systems, specifically for the building solutions industry. I was responsible for project assistance with risk management and progress reporting.



## CREDENTIALS



PRINCE2 Practitioner Project Management Certification



Registered as a Professional Engineer



B.Eng Electrical and Electronic Engineering Degree



## SKILLS

- Project Management
- Business Development
- MV & LV Electrical Design
- Automation & Systems Design
- PLC Programming
- Programming VFD Drives
- HTML5, CSS & JavaScript
- Arduino Programming

## SOFTWARE

- Microsoft Projects
- Microsoft Office
- Siemens SIMATIC Manager
- SQL
- AutoCAD
- Google Sketchup



## INTERESTS

- Rock Climbing
- Hiking
- Dirt Bikes
- Astronomy
- Photography
- Travel



## PROJECTS



### SLIP RING DESIGN & MANUFACTURE De Beers Marine

Jul 2015 – Dec 2015

**NATIONAL OILWELL  
VARCO**

Project Value: R1.1m

I was the Project Manager and Lead Engineer for electrical and mechanical design on this project. I designed a 1.5m diameter slip ring with 8 contact rings. The slip ring enclosure met the required quality of IP66 rating whilst rotating. The slip ring transfers 1kW power, an RS232 signal and a high speed DSL signal from stationary to a rotational drill string.

The project was delivered on time and in budget with all of the project's products within the required tolerances for scope, quality, risk and benefits.



### BUSINESS DEVELOPMENT PROJECT Repair capabilities developed for Offshore Knuckle Boom Crane Cylinders

Jan 2015 - present

**NATIONAL OILWELL  
VARCO**

Project Value: \$ 828k +

Due to previous issues a customer encountered with a repair job at our facility on a non-related piece of equipment, they were weary to send their hydraulic cylinders for overhauls to our facility in South Africa. Many of the customer's rigs are in Angola. Angola's borders are notorious for difficult customs and thus a business opportunity was identified to develop a business solution for our Angola facility and South Africa facilities to be capable of repairing large hydraulic cylinders.

I was solely tasked to develop the solution and to convince the customer to buy in to the model. I completed an in depth analysis, identified and audited 3<sup>rd</sup> party vendors for chroming, machine honing and nickel plating. I have negotiated an agreement with an OEM for their technicians and tools to be deployed to South Africa and Angola. Finally I flew to the customer's headquarters in Dubai and presented the solutions and capabilities.

Within the first two months following the presentation I received more than USD 820 000 worth of purchase orders for cylinder repair jobs from this customer. And there are many more to come. More customers have been identified and I am currently working on expanding our customer base for this solution.



### TOP DRIVE TEST STAND Internal project to design and build a test facility for Top Drives

Jul 2014 – Aug 2015

**NATIONAL OILWELL  
VARCO**

Project Value: R 8m

National Oilwell Varco manufactures equipment for the oilrigs called Top Drives. The Top Drive is used to rotate the drill string and allows fluid to be pumped to the bottom of the string whilst rotating. The NOV repair facility in South Africa required a test facility to do Factory Acceptance Tests after repairs have been conducted on the equipment. The Top Drives comes in various sizes, as large as two having 2 x 1000kW electric motors on them to drive the gearbox.

I was responsible for the project management of the job and the lead engineer for designing the electrical installation for the facility. The electrical installation included:

- 3MW Oil Transformer
- Electrical panels for generator connections
- Electrical Panels for Utility Power
- VFD cabinet for AC Motors
- SCR Cabinet for DC Motors



### TRIP TANK VOLUME SENSOR Transocean

May 2014 – Jul 2014

**NATIONAL OILWELL  
VARCO**

Project Value: R 500k

I designed a system to record the change in volume of mud in a trip tank, which is a hazardous area. The intrinsically safe device sends an intrinsically safe signal up to the driller's cabin where the data is displayed.





## PROJECTS (Continued...)



### PHOTOVOLTAIC POWER PLANT DESIGN

Aug 2013 – Feb 2014

**BVI CONSULTING ENGINEERS**

Project Value: R85m

Camco Clean Energy plc, based in London and listed on the London Stock Exchange, and MW1, part of the Astrum Energy group of companies based in Durban, South Africa, formed a joint venture in November 2012 with the aim of developing renewable energy projects in sub-Saharan Africa. The joint venture was busy developing a 5MW (AC) photovoltaic power station near Lichtenburg, North West Province, South Africa.

I was one of the electrical engineers responsible for the design of the complete photovoltaic power station. I assisted in all areas of design, but specifically focussed on the high voltage distribution, switching and protection.



### MV & LV ELECTRICAL DESIGN AND INSTALLATION REHAU Polymer (PTY) Ltd. Factory Extension

Oct 2012 – Sep 2013

**BVI CONSULTING ENGINEERS**

Project Value: R92m

The factory manufactures motor vehicle bumpers. Their main clients are Volkswagen and Mercedes. REHAU, who operates a 24 hour, 7 day a week production line required an extension of their facility with absolute minimal impact on production or down time.

The R92m project to extend the REHAU factory comprised of new offices, kitchen, ablutions, utility room and three new production halls. The new halls are as follows: a paint line hall; injection moulding hall and a logistics hall. In these halls the production process of various bumpers are completed from basic materials to final shelf products.

As the lead electrical engineer on the project, it was my responsibility to investigate, design and to manage the electrical installation of all electrical requirements for the new extension of the facility; a new factory area of around 10 000 square meters. A few of the requirements were:

- 2x 1MVA Transformers and MV Ring
- LV Power Distribution
- Lighting Design
- Earth Ring and Lightning Protection



### TIME & ATTENDANCE Kolomela Mine (Anglo American)

Oct 2012 – Sep 2013

**HONEYWELL**

Project Value: R8.46bn

An access control system was required for multiple sites on the mine. Examples are the main pedestrian and vehicle entrances, various offices, radio tower room, logistics warehouses and substations. All of these sites were spread kilometres away from each other. The access control system's database had to be integrated and synchronized with the access control server of HQ in Pretoria. It was required that employee changes and access rights could be edited from the Pretoria offices or any of the integrated sites all over the country.

There were six substations constructed in Johannesburg for the mine. Each substation was a combination of three containers to be transported to site by truck and re-assembled at the mine. I was required to install and commission the access control equipment in Johannesburg. The installation of the access control for the substations was crucial to be absolutely precise as to be operating when the substations were re-assembled on the mine, 850kms away.

Due to the successful implementation under harsh conditions and tight time lines of the Kolomela mine Time & Attendance project, I received achievement awards in recognition of excellence from both the client and from my company - Honeywell.



## CUSTOMERS

DE BEERS

Seadrill

Transocean

REHAU



Eskom

ANGLO AMERICAN

Standard Bank

ABSA  
Today Tomorrow Together



## PROJECTS (Continued...)

### ENERGY MANAGEMENT

Standard Bank SA  
Samrand Data Center

Apr 2009 – Mar 2010

### HONEYWELL

Project Value: R1.6bn

I was the lead electrical engineer for designing and installing an energy monitoring system at this R1.6bn Data Centre during construction.

I was solely responsible to design, install and commission an energy management system consisting of 347 electrical meters strategically placed throughout the centre. The massive Samrand Data Centre is the first data centre in the Southern Hemisphere to achieve Uptime Tier IV design and facility certification from the Uptime Institute in the United States. It's also believed to be the largest in Africa.

The energy meters communicate via ModBus network protocol on redundant Modbus rings. These rings are translated to TCP/IP and routed to the client's Local Area Network. The energy manager server receives this data and stores the relevant data captured in a SQL Database. Additionally the database captures customised data organised by scripts and equations which I had to implement for the client's unique requirements.



## REFERENCES

*"Guillaume was employed at Honeywell as an engineer in our business solutions project team. As my role as regional general manager, I closely observed Guillaume's growth during his three years with us.*

*Right from the beginning, Guillaume has shown an exceptional high level of energy, confidence and determination. Guillaume is highly intelligent and therefore a fast learner. Guillaume quickly moved through the ranks of a student intern, junior engineer and then to one of our most valued project engineers. His commitment, integrity, friendliness and sense of humour constantly won the hearts of satisfied customers.*

*I highly recommend Guillaume as I am confident he shall swiftly become a valuable asset to any company and project he is assigned to."*

- **Mr Richard Creighton**  
Regional Manager  
Honeywell HBS SA

*"Mr de Swardt has been a final year project student of mine in 2008. He showed that he is able to do research. He obtained a distinction for his project that contained a large amount of academic/theoretical work."*

- **Dr AS de Beer**  
Study Leader  
University  
of Johannesburg