

Willie Swanepoel

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LinkedIn Profile: <https://www.linkedin.com/in/willie-swanepoel-1725b2147/>

Professional Profile

I am a mechatronics engineer with a focus on software development. Through my career path, I have gained experience in every field of my degree, but the past seven years I have worked purely on desktop, mobile and web application projects. I love programming in general, but my true passion lies in resolving complex issues and producing elegant and efficient solutions.

During my career, I have further acquired skills in the following areas:

- Self-study became a necessity which I have mastered.
- Excellent ability to troubleshoot and fault-finding, which I have applied throughout my career.
- Excellent documentation and planning skills and can manage resources in an efficient and effective manner as expected of a professional engineer.

The quality of my work is always up to standard that exceeds the expectations of my superiors and our clients. I am motivated, passionate and driven towards bettering myself with each new opportunity presented before me.

Key Competencies

Authentic	Reliable and trustworthy in all projects that I am assigned to.
Logically oriented	I can follow a system's path of execution with relative ease and determine where and why an issue occurs.
Self-study	I am a quick learner and have a curious nature. As such, I enjoy researching items unfamiliar to me and completing online courses.
Independent	I do not need constant supervision to complete my work. When I encounter a problem that I do not know how to solve, I try to research the solution myself first before I ask for assistance.
Team player	I get along with most people and do not allow personal feelings to infringe upon my relations in the work environment.

Technical Skills

• C# (Visual Studio 2022) & .Net Frameworks – highly proficient, with a natural affinity.
• HTML5, CSS3 & Javascript with AngularJS & React – moderate front-end proficiency.
• SQL Server – moderate proficiency at querying, stored procedures and manipulating DBs (excluding new server setup)
• Xamarin (cross-platform framework for mobile apps) – low front-end proficiency.
• Azure – low to moderate proficiency.
• AWS – low to moderate proficiency in S3, CloudFront & CodeBuild services.
• Google Cloud – low proficiency in Firebase and hosting.
• OOP & encapsulation – highly proficient, with a natural affinity.
• MVVM architecture – moderate proficiency level, where I am comfortable with the fundamentals.
• Unit testing (NUnit) – low proficiency level, where I have only viewed tutorials online.
• Dependency injection (Ninject) – low proficiency level, where I have used it during my tenure at Seequent, but do not yet comprehend the fundamentals thereof.

Career Overview

Designation	Company	Tenure
Senior Full-stack Developer (Remote)	Hyperboliq (EPI-Use Africa (Pty LTD))	07/2021 – present
Senior Web Developer (Remote)	ELCB Information Services	01/2021 – 06/2021

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Senior Web Developer (Remote - contract)	Business Genetics	05/2019 – 12/2020
Mobile App Developer (Remote - contract)	Acumen	02/2019 – 05/2019
Software Developer	Seequent South Africa (Pty) Ltd	11/2017 – 12/2018
Junior Electronics Engineer	Novelquip Forestry	08/2016 – 10/2017
Field Service Engineer Subsea (worked during my degree)	National Oilwell Varco	11/2013 – 06/2016

Education

Qualification	Institution	Year
Bachelor in Engineering – Mechatronics Refer to full Academic Report for further details	Nelson Mandela Metropolitan University	2009 - 2014
Matric (Grade 12)	Framesby High School	2008

Professional Development

Due to my zealous nature to develop and enhance my knowledge and technical skills, I am continuously self-learning subjects and technologies. I have invested time in completing the following subjects:

- | | |
|---|---|
| <ul style="list-style-type: none">• C# WPF UI (this is a set of 20 tutorials)• HTML5, CSS3 & Javascript• ASP.Net MVC5 with Entity Framework• Xamarin cross-platform mobile apps• MVVM and MVC architectures• Mock data for unit test with MOQ• Dependency injection and Ninject | <ul style="list-style-type: none">• C# events (how to publish and subscribe to events)• AngularJS• KnockoutJS• Prism architecture• Test Driven Development (TDD) and NUnit• Unit and integrations test• Fluent assertions |
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Career Summary

Remote Senior Developer (Permanent) July 2021 – present

HyperBoliq – EPI-USE Africa (Pty) Ltd

HyperBoliq specializes in providing intelligent UX solutions, fostering innovation, scalability, and adaptability across digital engagement channels. Our focus is on assisting both startups and established clients in transforming their inspiring ideas into reality.

In my role at HyperBoliq, I take on a range of responsibilities related to programming and project management. This includes tasks such as planning, estimations, and implementation of projects. I am actively involved in configuring and managing repositories and hosting environments for various projects. Additionally, I play a key role in the review, approval, and merging of pull-requests, engaging in hands-on coding across multiple languages and frameworks, and addressing issues through investigation, troubleshooting, and debugging. Another aspect of my role involves the restructure and improvement of existing projects.

Moreover, I contribute to the development team by providing mentorship and guidance to mid- and junior-level developers. My focus extends to identifying areas for enhancing system performance and availability. Throughout these tasks, I prioritize effective and professional communication with internal customers, ensuring clarity and transparency in all interactions.

Remote Senior Web Developer (Permanent) January 2021 – June 2021

ELCB Information Services (Pty) Ltd

ELCB stands as a dynamic and competitive IT company committed to deliver industry-specific consultation and assistance, tailoring IT strategies, software solutions, and information management to meet the unique requirements of the clients' business areas.

In my role at ELCB, I was responsible for a spectrum of programming-related tasks. This includes meticulous planning, estimations, and implementation of projects, coding efficient solutions, and conducting troubleshooting and debugging to

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ensure optimal performance. Additionally, I contributed to comprehensive testing and technical investigations.

Beyond technical duties, I actively engaged in mentorship and guidance for mid- and junior-level developers, fostering their professional growth. I was dedicated to identifying and implementing strategies to improve system performance and availability.

Reason for leaving: Had to take a financial setback after previous contract has ended.

Remote Full-Stack Web Developer (Contract-based)
May 2019 – December 2020

Barifor (Pty) LTD – Business Genetics

Business Genetics is dedicated to executing projects aimed at elevating client brand engagement through innovative technology, strategic design, and valuable business solutions. They specialize in facilitating personalization and fostering collaboration within end-to-end customer communication processes.

In my role, I was responsible for both front-end and back-end development of web applications, focusing on enhancing performance, implementing new features, troubleshooting and resolving bugs, restructuring legacy code, modifying databases and stored procedures. Additionally, I contributed to the development and implementation of RESTful web services and conduct research to integrate and implement third-party APIs.

Reason for leaving: Contract period ended due to the focus of the project having shifted from development to marketing.

Remote Mobile App Developer (Contract-based)
February 2019 – May 2019

Sales Acumen Solutions (Pty) Ltd

Acumen operates as a business solution incubator. During my tenure as a freelance mobile applications developer, I played a pivotal role in executing front-end modifications for the rebranding project of one of Acumen's esteemed clients.

Reason for leaving: Had to take a financial setback after being retrenched.

Software Developer
November 2017- December 2018

Seequent South Africa (Pty) Ltd

Seequent, a global leader in data visualization software and collaborative technologies, focuses on delivering solutions for extracting valuable insights from geotechnical data to inform decisions related to earth, environment, and energy challenges. In my role, I actively contributed to the development and maintenance of the software suite in a C# environment. This included investigating reported bugs from both testers and clients, troubleshooting issues, and implementing efficient solutions. My work extended to gaining expertise in 3D space development, involving algorithms and data structures tailored for this dimension.

As part of a team of four developers, I played a crucial role in addressing customer needs by enhancing features and algorithms, addressing bug reports, and implementing requested functionalities. My commitment to project deadlines, adherence to customer agreements, and effective collaboration with various departments ensured the successful completion of tasks within established timelines.

Reason for leaving: Retrenched after the company consolidated their resources to HQ.

Junior Electronics Engineer
August 2016 – October 2017

Novelquip Forestry

Novelquip Forestry is an OEM that provides solutions to the challenges faced in the forestry and agricultural industries.

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Achievement

On joining, I was 'thrown into the deep-end' to find my way. Through late nights, self-study and assistance through online forums and case studies, I managed to become competent in my job function in a very short time.

Responsibilities

- Provide electronic solutions to customer requests where I worked primarily on a single project that entailed the electronics on an automated planting machine. This included:
 - Populating the custom-made PCBs.
 - Creating a touch-screen HMI for the operator.
 - Establish single-line communication among the several nodes on the planting machine in a LIN configuration.
 - Troubleshoot and correct faulty equipment/ components.
 - Program microcontrollers to handle the communication among the several nodes.
 - Program microcontrollers to interface with the HMI.
 - Source and acquire the necessary electronic components.

Reason for leaving: Acquired a better opportunity.

Field Service Engineer (Subsea) November 2013 - June 2016

National Oilwell Varco

Leading worldwide provider of equipment and components used in oil and gas drilling and production operations, oilfield services, and supply chain integration services to the upstream oil and gas industry.

Key projects

An installation and commissioning job, South Korea.	2-month project
Created a standard procedure document to overhaul the Blowout Preventer (BOP).	2-week project
Appointed as the lead service technician on a rig based in Côte d'Ivoire.	4-week project
Project Assistant, Cape Town.	7-week project
An overhaul and commission job on the subsea equipment of a drill ship, which was in transit from Cape Town to Curaçao.	7-week project

I performed a dual function, as a Field Service Engineer (primary role), and Technical Support and Assistant Project Engineer when I was not assigned to a rig. When I joined NOV, I spent my first 2-months in Texas, training.

Responsibilities

- Mobilise to all types of oilrigs and perform inspections, installation, commissioning, disassembly, troubleshooting, repairing, reassembly and testing of all NOV Subsea equipment.
- Troubleshoot and correct faulty mechanical, electrical, hydraulic and pneumatic systems.
- Thorough job preparation including familiarising customer needs and identify possible upgrades or maintenance other than requested; gathering all necessary engineering drawings, procedures, reports, parts lists, work scope and quality plan.
- Completing all necessary service documentation including daily, service and inspection reports, assessments, surveys, job tickets, expenses, job debriefing, lessons-learned meetings, further improvement/development meetings, and customer feedback documents.
- Adherence to necessary safety measures, i.e. work permits, hazard identification, risk assessments, safety protocols and evacuation drills, personal protection equipment, fall arrest equipment and Lock-Out-Tag-Out systems.
- Set up of engineering equipment and tools to perform various inspections, function tests and pressure tests.
- Interpret and assess condition of NOV products based on results of the above-mentioned inspections and tests.

Performed work as Technical Support and Assistant Project Engineer:

- Receive and assist technical queries from customers and NOV service engineers on board rigs.
- Compilation, checking and approving standard documents including, but not limited to, project work scopes, quality plans, recommended parts lists for product repairs and overhauls, inspection reports and surveys.

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- Compiled standardised disassembly procedure for NOV subsea equipment from engineering detail drawings.

Reason for leaving: Retrenched after crash of oil price in 2015.

References

References available on request.



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1st December 2020

TO WHOM IT MAY CONCERN

This is to confirm that Mr. Willie Swanepoel has worked with BusinessGenetics (Pty) LTD and MediaCogent in the capacity of Senior IT Developer.

Willie is an individual with positive values, characteristics, and work ethics, all of which I believe are things that good employees should aspire to have.

I have known Willie since he began working at our companies and he has shown himself to be a positive asset. He is highly regarded by Management and other technical IT staff. He always delivers as advertised and possess a sound grasp of complex situations. He is also quick to raise his hand should he need support outside of his area of expertise.

Willie is a solid communicator and has proved himself to be more than capable at his job. In fact, he has consistently exceeded company expectations. It is with this observation that I am recommending him for the position applied for.

Because of his professionalism and hardworking nature, I believe that he will show the same enthusiasm at your company as he did with ours. With this sincere recommendation, I hope that you will consider Mr. Swanepoel for the position.

Regards,

Cedric Tyler
CEO

To whom it may concern,

I am writing this letter to wholeheartedly recommend Willie Swanepoel as a highly talented and skilled software developer. I have had the pleasure of working closely with Willie Swanepoel for the last six months at Hyperboliq.

Willie Swanepoel is an incredibly proficient software developer with a deep understanding of various programming languages, frameworks, and development methodologies. He possess a rare combination of technical expertise, problem-solving abilities, and a keen eye for detail, which enables him to consistently deliver high-quality software solutions.

In addition to his technical capabilities, he is an excellent collaborator and team player. He exhibits great communication skills, actively participates in discussions, and provides valuable insights that contribute to the overall success of the team. He is always willing to share their knowledge and help others, fostering a positive and collaborative work environment.

Throughout our collaboration, I have witnessed his remarkable work ethic and commitment to excellence. He consistently meets project deadlines while ensuring the software is thoroughly tested and free of bugs. He is always willing to go the extra mile to deliver outstanding results and exceed expectations. His positive attitude, adaptability, and eagerness to learn new technologies make him an invaluable asset to any development team.

I have no doubt that he will continue to excel in his software development career and make significant contributions wherever he goes. His talent, drive, and exceptional skills will undoubtedly be a valuable addition to any organization.

In conclusion, I wholeheartedly recommend Willie Swanepoel as an outstanding software developer. He possesses the technical expertise, problem-solving abilities, and collaborative spirit that make him an asset to any development team. If you have any further questions, please do not hesitate to reach out to me.

Sincerely,
Robert Morris

A handwritten signature in black ink, appearing to read 'R Morris', with a stylized, flowing script.