

Name of Firm : IGS Engineers Namibia CC
Name of Candidate : Nico Paetzold
Profession : Bachelor Professional in Technik
Designation : Head of Engineering Structures
Proposed Position : Project Lead
Date of Birth : 07 July 1993
Years with Firm/Entity : 6 Months
Nationality : Namibian
Marital Status : Single



1. INTRODUCTION

Highly motivated Bau-Techniker (Construction Technician) with a strong background in carpentry, having completed a 2-year apprenticeship in Germany. Following my apprenticeship, I spent 5 years traveling internationally, working on various construction sites, and honing my skills under the German carpentry tradition. After furthering my education at Technikerschule Kempten in Germany, I advanced to the role of Bauleiter (Construction Manager), where I successfully planned and supervised the demolition of several bridges, including pedestrian, vehicular, and railway bridges that were part of the German Autobahn or spanned highways and rivers. Currently, I am the Head of Engineering Structures at IGS Engineers Namibia, leading a team in the design and execution of complex engineering projects. With my hands-on experience, technical education, and leadership in structural engineering, I am dedicated to delivering high-quality, innovative solutions for large-scale infrastructure projects.

Experience relevant to the Project is as follows:

- Project/Development Planning;
- Construction Supervision;
- Project Management;
- Tender and Contract Documentation (FIDIC General Conditions of Contract);
- Civil and Structural Detail Designs;
- Quality Assurance;
- Contract Administration (Claim adjudication and Payment Certificates);
- Project Identification, Investigation and Solving.

Other key expertise include:

- CAD and BIM programmes;
- Instructor proficiency
- German language diploma level C1;
- Information Technology (IT);
- Sampling of waste in accordance to landfill regulations (LAGA PN 98).

2. QUALIFICATIONS

<u>Year</u>	<u>Institution</u>	<u>Degree/Diploma</u>
2015	Handwerkskammer Frankfurt-Rhein-	Carpenter
2021	Handwerkskammer Schwaben	Instructor proficiency qualification
2022	Technikerschule Allgäu	Bachelor Professional in Technik
2022	BG BAU	Safety-technical training for master and technician students with imparting occupational safety knowledge for coordinators in accordance with Appendix B, RAB 30
2022	SECUM GmbH	safety and health protection coordinator
2023	Safety First2 GmbH	Securing construction sites on roads in compliance to RSA 21 Part A;B;C
2023	DEKRA Certification GmbH	HSE for Operational Supervisors
2023	Schadstoffschulung	Expertise course in accordance with DGUV rule 101-004 renovations and work in contaminated areas (Removal of PAH, PCBs and Asbestos)

3. PROFESSIONAL REGISTRATIONS

<u>Professional Body</u>	<u>Registered As</u>	<u>Registration Number</u>
Namibia Qualification Authority	Documents currently being evaluated	

4. EMPLOYMENT RECORD

2023-date	Head of Engineering Structures at IGS Engineers Namibia
2022/2023	Construction Manager for Max Wild GmbH in the bridge demolition/restoration department
2020/2022	Education as a State-certified construction engineer in Germany
2015/2020	Carpenter foreman/Construction management on various Construction Sites in Germany, Switzerland, Austria, Scotland, New Zealand, Norway, Denmark, Martinique, and Daytona Beach (Florida)

2013/2015 Apprenticeship as Carpenter in Germany

2012/2013 D.G. Fritze Joinery C.C Swakopmund

5. LANGUAGES

	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	Good	Good	Good
Afrikaans	Medium	Medium	Medium
German	Mother tongue	Good	Good

6. EXPERIENCE RECORD

<u>Period</u>	<u>Description</u>
Nov 2023 – date	Head of Engineering Structures at IGS Engineers Namibia
Sep 2023 – Oct 2023	<p>Part of the construction management during the demolition of the 50-year-old Omega Bridge, which was at risk of collapse and was in a residential area in the middle of Frankfurt. The bridge crossed 4 railway tracks and 2 switches, which was one of the main railway routes into Frankfurt.</p> <p>That is why there was only a small window of 3 days in which the bridge could be demolished in the vicinity of the tracks. The planning of the demolition measure had to be completed within a week, hereby the biggest challenge was the transport of the demolition equipment and the removal of the broken concrete material as well as the removal of the required equipment. Thanks to the partnership between Deutsche Bahn, municipal authorities and various subcontractors and the continuous commitment of the demolition team, the bridge made of prestressed steel around the railway tracks was dismantled 24 hours earlier than planned without damaging the railway line and the train traffic was able to run again unhindered.</p> <p>The remainder of the bridge on both sides of the railway tracks was quickly dismantled down to the abutment in the following days. A big special feature of the demolition was the so-called Omega shape that represented the bridge structure. This shape, from which the structure got its name, also presented us with static difficulties during demolition, as the structure would constantly twist due to the curve when it was cut through and there was a risk that the superstructure would slip off the supports. Thanks to close cooperation with demolition structural engineers, we were able to prevent this and demolish the bridge in a controlled manner. Another special feature is the proximity of the building to shops, residential buildings and even 20-story high-rise buildings.</p> <p>I was tasked with the planning, preparation, scheduling of the employees and the equipment, as well as the coordination with the involved authorities and the construction documentation and site supervision and billing the work. (Project Value: € 1.8 million)</p>

- Jun 2023 – Sep 2023** Part of the Construction Management Team for the demolition of an outsourced Bridge which crosses a 6 lane Autobahn and 4 lane on/offramp to the Autobahn in the vicinity of Offenbach by Frankfurt. The Bridge consisted of 4 Sections of which the two middle sections were built earlier and crossed the Autobahn completely and after the Autobahn was expanded to a 6 lane and the on/offramps were moved to the Outside the two outer sections were added to the Bridge. The outer segments of the bridge were built with spacers containing asbestos and therefore had to be demolished at a great expense. To do this, the affected bridge elements were separated into transportable elements using special concrete drilling and sawing technology and a mobile crane during four nights when the access roads were closed. These elements were stored away from the construction site and the asbestos-contaminated concrete was then removed using a special milling process and professionally disposed of. The remaining concrete was then crushed and recycled. The 6-section motorway was then completely closed on a Friday evening and the rest of the bridge structure was demolished using various Construction Machinery such as excavators and dump trucks, so that the motorway was fully open to traffic again on Sunday afternoon. I was responsible for the planning, preparation and scheduling of the personnel and construction equipment, as well as the coordination of the various authorities and the construction documentation, construction site monitoring and invoicing for the work carried out.
- Apr 2023 – Sep 2023** Construction management for the demolition of a 3-lane Autobahn Bridge crossing over the Main railway connection from the South to the City of Ansbach. The Bridge with a height of 40m over the ground had to be demolished in only 60 hours. The biggest challenges for the Project were that the traffic which was diverted over the adjacent Autobahn bridge with only 40 cm between the two Constructions had to be upheld and that the Railway would not be damaged and the Trains could be crossing after the given timeline of 60 hours. Keeping these perimeters in mind whilst planning we came up with the solution of cutting the bridge into pieces whilst they were hooked up to a 1400-ton Crawler crane or resting on a special designed substructure which was installed earlier. The Bridge elements with a weight of up to 120 tons were placed behind the Crawler crane where they were shredded and the Material recycled. I was tasked with the planning, preparation, scheduling of the employees and the equipment, as well as the coordination with the involved authorities and the construction documentation and site supervision and billing the work. (Project Value: € 2.5 million)
- Mar 2023 – Jun 2023** Construction management for the demolition of a Bridge along the Autobahn 70 near Scheßlitz. I was tasked with the planning, preparation, scheduling of the employees and the equipment, as well as the coordination with the authorities and the construction documentation and supervision and billing the work. (Project Value: € 600 000)
- Feb 2023 – Mar 2022** Construction management for the demolition of a Bridge along the Autobahn 6 near Kammerstein. I was tasked with the planning, preparation, scheduling of the employees and the equipment, as well as the coordination with the authorities and the construction documentation and supervision and billing the work. (Project Value: € 750 000)

- Aug 2022 – Oct 2022 Construction management for the demolition of the Leunaknoten bridge in Frankfurt. This pedestrian bridge crossed a very busy street intersection, so the requirement for the demolition were that the work would be carried out over the weekend on 24h shifts in a maximum of 2 days. A conventional demolition of the bridge could not take place because of underground high-pressure gas and water lines, as well as Fiber optic lines, which would be damaged in the event of stronger vibrations. In this case, the bridge was supported at certain points with a specialised scaffolding system and then separated into individual parts using concrete sawing and drilling technology. The separated reinforced concrete bridge elements were lifted by 4 Mobile cranes (up to 750 tons) onto heavy transport trucks and transported to a separate area where the elements were shredded, the different materials separated and recycled. My tasks included among other things, the coordination with the authorities involved in the construction, planning and scheduling of the work, equipment and employees, the construction documentation and supervision and billing of the work. (Project Value: € 1,4 million)
- Aug 2022 – Mar 2023 Construction management for the demolition of the Cassella Bridge in Frankfurt. The 800m long pedestrian bridge towered over a chemical park. This meant that increased safety measures had to be observed during the demolition. In addition, the train and truck connections had to be held upright, as the factory remained operational during the demolition work. My tasks included consultation with the city authorities, the chemical park, and the structural engineers. I was also responsible for the division of workers, the corresponding equipment (such as excavators, cranes, and trucks, etc.) and partner companies. In addition, construction supervision, documentation of the work carried out, the professional disposal or recycling of the demolition material and the billing of the work carried out were also part of my area of responsibility. (Project Value: € 1,6 million)
- Apr 2020 – Aug 2020 Construction planning and management of various roof constructions for single and multi-family houses in Germany.
- Dec 2019 – Mar 2020 Construction management for the renovation of apartment buildings in Daytona Beach (Florida).
- Sep 2019 – Nov 2019 Construction management for the construction of an energetically insulated single-family home including facade design in Austria.
- April 2019 – Jul 2019 Construction management in the procurement, production and assembly of modern half-timbered components for a single-family house in Denmark.
- Jan 2019 – April 2019 Construction planning, drawing and management of the construction of a carport in Martinique.
- Sep 2018 – Dec 2018 Construction management of the demolition and reconstruction of three timber frame holiday homes in Scotland in accordance with the local building regulations.
- Feb 2018 – Jun 2018 Construction site management for the restoration of a listed half-timbered house with roof renovation in Germany.
- Sep 2017 – Dec 2017 Construction management an execution of a wellness hut with an associated terrace and its access routes in Norway.

Feb 2017 – Apr 2017	Construction management and execution of an outdoor terrace with a roof in New Zealand in accordance to the Countries construction regulations.
Nov 2016 – Jan 2017	Construction management and execution of a roof extension to a single-family house in Australia in accordance to the Countries construction regulations.
May 2016 – Oct 2016	Carpenter foreman on the restoration of a listed house and installation of a gable roof dormer in accordance with the requirements of the local monument protection in Switzerland.
Dec 2015 – April 2016	Carpenter foreman on the restoration Projekt of the two lower Turns (2 x 300m) of the wooden roller coaster in Botrop (Germany). The restoration work could only be done in the Wintertime whilst the amusement park was closed for the Public.

7. CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications and my experience.



Date: 15/01/2025

(Signature of staff member and authorized representative of the firm)