
Carl Boshoff

CURRICULUM VITAE

ID Number	601015 5034 08 8	
Profession	Engineer (Heavy Current)	
Date of birth	15 October 1960	
Nationality	South African	
Drivers Licence	Yes, Code A and Code EB	
Home Language	Afrikaans	
Other Language	English	
Health	Good	
eMail & Cell no:	carlboshoff@onweb.co.za 082-410-0451	
Website:	https://www.carl.onweb.co.za	
Address	Farm 197G, MeisiesHalt, Gonubie, Eastern Cape, 8217.	
Marital Status	Married	
Number of dependants	Two (Me and my wife only)	

EDUCATION

T3 – Vaal University of Technology

Ready to **serve** when you call or need me.

SKILLS

I am proficient in most packages such as Microsoft Office **Word** and on advanced level with **Excel** utilizing its complex functions & formulas and Macros for Excel using **Visual Basics for Applications** as my programming language for the Macros in Excel.

I have done a lot of electrical designs using **MicroStation's Computer Aided Drafting (CAD)** package and are keen to perform all my calculation utilizing Microsoft **Excel**. Therefore, I am not depending on 3rd party software to perform any of my calculations, for enough knowledge is part of my skills without the need to depend on 3rd party software, such as Retic-Master etc.

I am excellent on the calculation of Volt Drops, Fault Levels, Protection Settings, etc. I am good in drafting tender documents and performed various successful feasibility studies. I gained experience on the operation and construction of windfarms. I commissioned many substations before and are very comfortable in a substation, understand the wiring without looking at a drawing, how-ever obviously with fault-finding in existing protection panels as-built protection drawings must be made available.

Now being unemployed, and having a passion in programming I am quite computer literate by understanding all about LAN systems and the Internet. I design and develop websites and do CCTV installations including the Integration between NVR's and DVR's with existing or new LAN equipment. I trade under two Sole Proprietor company names, called [ONWEB Web Design](#) and as [Spy Stuff](#). Visit the sites at the trading company's links on the names as provided.

EMPLOYMENT RECORD

No	Company Name	Start	End
1	Self-Employed	1 August 2014	Still self employed
2	CA du Toit Western Province	15 January 2013	31 July 2014
3	CA du Toit (Pty) Ltd	16 August 2010	9 December 2012
4	Bigen Africa Services	1 March 2007	30 June 2010
5	Buro Tech cc	02 October 2006	28 February 2007
6	CA du Toit (Pty) Ltd	01 November 2005	31 August 2006
7	Alpha Consortium Ltd	14 November 2002	29 October 2005
8	Chorn Kirtlan Riccardie (Pty) Ltd	1 March 2002	8 November 2002
9	Ukubona 2000 Electrical	01 March 1999	08 November 2002
10	CA du Toit (Pty) Ltd	01 August 1989	06 February 1999
11	Midrand Town Council	01 February 1986	30 July 1989
12	SASOL II	01 July 1983	15 December 1985
13	ESKOM	01 April 1979	31 June 1983

1. Self-Employed

Location of company	Meisies Halt, Gonubie, East London, Eastern Cape
Period self-employed	From 01 August 2014 and still self-employed
Duties	Since I am self-employed, and not appointed as an Electrical Engineer with any company (to my dismay), I offer my services as a Sole proprietor trading as ONWEB Web Design (<i>design, development and hosting of Websites</i>) Further to the above have I studied the art to design, install and perform system integration tasks on CCTV equipment. Refer to my website at https://spystuff.co.za/tutor/ called ICE Tutorials to witness my current CCTV knowledge base. I also served as an Independent Electrical Consulting Engineer (<i>Heavy Current</i>). I served as Independent Consultant to Magula Erasmus Consulting Services cc to evaluate, redesign and drafting of new Bill of Quantities on the Nurses Home and Medical Depot of Mthatha Regional Hospital. This task took three months to complete and was valued in total to R25 Million. I served as Independent Consultant to Randshelf 218cc t/a Prime Electrical in order to render consulting services on Gamsberg 66/11kV Substation to draft a detailed Bill of Quantities which involved the following: • 66kV Outdoor Circuit Breakers and Isolators • 66kV Outdoor Busbar Post Insulators • 66kV Outdoor CT's and VT's • 66kV protection and control panels in switchyard. • 2 x 66/11kV 36/45MVA transformers • Neutral Grounding Resistors • Capacitor banks for Power Factor Correction • 2" EH Al Pipe Busbars and Moose conductors • Earth Mat and Lightning Protection System • Illumination System • 400V system, with A/C panel and Battery Charger • O-Line Heavy duty galvanized cable ladders, 600mm wide, to be installed inside substation Building TOTAL VLUE of this tender was ± R50 Million

2. CA du Toit Western Province

Location of company	Belville, Cape Town
Type of company	Consulting services in Electrical, Electronics, Mechanical
Salary earned	R38,000.00 per month
Last position	Freelance Engineer (Heavy Current)
Period employed	From January 2013 to 30 July 2014
Duties	Micaune Port to Rail project: Do complete feasibility study for this project totalling to an electrical portion of R700 Million. This includes for one main 220/110kV substation, six of 110/11kV substations, 200km of 110kV underground cables, etc. Done feasibility studies of three windfarms (Huizenberg, Trouberg and Etswatse Emoyani in the Northern Cape with a total generation capacity of 950MW.. As from 30 April 2014 I served as Owners Electrical Engineer on a full time basis on Noblesfontein windfarm. The Engineering, Procurement and Construction (EPC) Contractor on Noblesfontein Windfarm project was Group 5 and Iberdrola Joint Venture. The Wind farm consisted of 42 Wind turbines as manufactured and commissioned by VESTAS Tasks as Owners Electrical Engineer: • Monitoring works to ensure that the quality of installation is done as per specification by addressing the EPC contractor when necessary. • Monitoring the progress of the works daily and address construction problems identified by me. • Comment to client (Coria) on electrical design changes as made by EPC contractor for Coria's approval/rejection. • Representing the client (Coria) at Eskom meetings and commissioning processes. • Attending monthly site meetings to comment on electrical matters on behalf of the client. • Following up with the EPC contractor to update the as-built drawings, and sign off as correct at completion for future maintenance solutions. • Evaluate and comment on monthly reports and milestone claims as submitted by the EPC contractor.
Reason for leaving	My appointment at CA du Toit was standing for the duration of the Noblesfontein Windfarm construction period. This project has been successfully completed, therefore my contractual agreement expired.

3. CA du Toit (Pty) Ltd

Location of company	Vereeniging, GAUTENG
Type of company	Consulting services in Electrical, Electronics, Mechanical
Salary earned	R34,000.00 per month "Cost to Company"
Last position	Senior Technician (Heavy Current)
Period employed	From 16 August 2010 to 9 December 2012
Duties	Marketing, design, complete detailed preparation of tender documents, including the negotiations required to ensure the prepared documents and specifications are approved at Supply authorities. Microstation CAD drafting, Site supervision, Detailed Contract Management Projects completed in this two(2) years: • Groenpunt Prison – (<i>Investigate and prepare document for the Repair and Maintenance program</i>). • Dorbyl Factory- (<i>Prepare specifications and documents including Microstation CAD designing of drawings for Factory lights & plugs, and for the municipal's 88kV switch-yard upgrade, 20MVA 88/11kV transformer bay and all 11kV reticulation</i>)s. • Arcon Park Extension 12 Development of 121 Industrial Stands. • New Aids Clinic at Sebokeng. • Safety manual and implementation.
Reason for leaving	"CA du Toit" Vereeniging was unable to keep me busy since we did not have enough projects available. I was therefore retrenched as from 1 August 2012 but I was still required by CA du Toit as Design Technician and Project Manager on a "as and when required" basis until December 2012. Therefore, I approached CA du Toit (Western Province).

4. Bigen Africa Services

Location of company	Woodmead, GAUTENG
Type of company	Consulting services in Electrical & Civil Engineering
Salary earned	R34,000.00 per month with standard benefits
Last position	Senior Technician (Heavy Current)
Period employed	From 1 March 2007 up to 30 June 2010
Duties	Design, complete detailed preparation of tender documents, including the negotiations required to ensure the prepared documents and specifications are approved at supply authorities. Site supervision, Detailed Contract Management on various town development and substation projects. Appointed specifically to also serve as mentor to young graduated Electrical Engineers.
Reason for leaving	Got married and moved to East London with my wife.

5. Buro Tech cc

Location of company	Heatherdale A/H, Pretoria, GAUTENG
Type of company	Electrical Consulting Engineers
Salary earned	R30,000.00 without standard benefits
Last position	Senior Technician (Heavy Current)
Period employed	From 02 October 2006 up to 28 February 2007
Duties	Design, complete detailed preparation of tender documents, including the negotiations required to ensure that the prepared documents and specifications are approved at supply authorities. Site supervision, Detailed Contract Management on various projects.
Reason for leaving	Too much traveling to work, from 5h00 wake-up, travel to work to be on time by 7h00, then end day by 17h00, travel back and arrive at home by 19h00.

6. CA du Toit (Pty) Ltd

Location of company	Kempton Park, GAUTENG
Type of company	Consulting services in Electrical, Electronics, Mechanical
Salary earned	R30,000.00 per month with standard benefits
Last position	Senior Technician (Heavy Current)
Period employed	From 01 November 2005 up to 31 August 2006
Duties	Design, complete detailed preparation of tender documents, including the negotiations required to ensure the prepared documents and specifications are approved at supply authorities. Site supervision, Detailed Contract Management. The major project where I was extensively utilized were for the Site Supervision (Clerk of Works) on the Pierre Terminal project at O.R. THOMBO Airport, for ACSA. This project Electrical Construction value was R150,000,000.00
Reason for leaving	I got divorced. Moved because I had to get away from my existing environment at that time.

7. Alpha Consortium Ltd

Location of company	Apapa, Nigeria, WEST AFRICA																								
Type of company	Electrical & Power Business																								
Salary earned	US\$7500-00 per month (tax-free) plus all accommodation, cell-phone, internet, transport and travelling expenses.																								
Last position	Construction Manager																								
Period employed	From 14 November 2002 up to 31 October 2005																								
Duties	From 14 November 2002 up to 01 October 2003, on Revenue Collection Management (RCM) project with NEPA as Engineering Specialist of which 6 months of it I served as Acting General Manager. The main tasks concentrated on were: • Meter installations & investigations. • Loss Analysis calculations and reports. • Theft control of power and Load factor calculations. • Customer services on MD and Non MD customers. • Safety manual and implementation. Achieved winning the Grid System Metering project to the value of US\$5,600,000.00 for the company, and serve as Construction Manager as from 02 October 2003 to 31 October 2005 to install 132kV CVT's and CT's, including concrete foundations, Steel Structures, Marshalling Kiosks, Control cabling, Meter panel and meter installations, ACSR cable modifications, 132kV busbar modifications, etc. This task is performed all over Nigeria. The following is a list of places that had to be modified: <table> <tr> <td>Akamgba</td><td>Alaoji (ABA)</td></tr> <tr> <td>Oshogbo – OSHOGBO</td><td>Onitsha</td></tr> <tr> <td>Ekeja West</td><td>Shiroro Power Station</td></tr> <tr> <td>Egbin</td><td>AJA</td></tr> <tr> <td>Katampe – Abuja</td><td>Aiyede – IBAJAN</td></tr> <tr> <td>Bernin City</td><td>ENUGU (New Haven)</td></tr> <tr> <td>Ajaokuta</td><td>Gombe</td></tr> <tr> <td>AFAM Power Station</td><td>Jebba</td></tr> <tr> <td>DELTA Power Station</td><td>Kano</td></tr> <tr> <td>Alaoji (ABA)</td><td>JOS</td></tr> <tr> <td>Onitsha</td><td>Bernin Kebbi</td></tr> <tr> <td>Shiroro Power Station</td><td>Kaduna</td></tr> </table>	Akamgba	Alaoji (ABA)	Oshogbo – OSHOGBO	Onitsha	Ekeja West	Shiroro Power Station	Egbin	AJA	Katampe – Abuja	Aiyede – IBAJAN	Bernin City	ENUGU (New Haven)	Ajaokuta	Gombe	AFAM Power Station	Jebba	DELTA Power Station	Kano	Alaoji (ABA)	JOS	Onitsha	Bernin Kebbi	Shiroro Power Station	Kaduna
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Reason for leaving	Project was completed and returned to South Africa.																								

8. Chorn Kirtland Riccardi (Pty) Ltd

Location of company	Craighall Park, Johannesburg, GAUTENG
Type of company	Electrical Consulting Engineers
Salary earned	R14 000-00 per month without standard benefits
Last position	Technician (Heavy Current)
Period employed	From 01 March 2002 to 08 November 2002
Duties	Investigations of existing sites to be upgraded, design, complete detailed preparation of tender documents, including the negotiations required to ensure the prepared documents and specifications are approved at supply authorities. Being the only Reticulation and MV substation specialist for Chorn Kirtland Riccardi at this time, I have successfully designed their first MV overhead reticulation project ever. This project has been implemented while I started my duties in Nigeria with my next employer. Feedback indicate that the project was successful completed. Site supervision on Dimension Data Campus site with electrical installation value of over R50,000,000.00.
Reason for leaving	Offer in Nigeria is financially much more attractive.

9. Ukubona 2000 Electrical

Location of company	Edenvale, GAUTENG
Type of company	Electrical contracting company
Salary earned	R14 000-00 per month without standard benefits
Last position	Senior Technician (Heavy Current)
Period employed	From 01 March 1999 to 28 February 2002
Duties	• Tendering by obtaining tender documents, completion and submission of the documents. • Complete contract administration. • Planning and programming of project that must be completed. • Site supervision and representing Ukubona at project site meetings. • Maintenance work on MV & LV equipment. • Cable fault location & testing. • Installation of HV Termination and Joints, modifications to HV panels on the HV busbars. • Installation and commissioning of HV substations up to 42kV. This includes the commissioning of protection circuits, testing of relays, ductance test, pressure tests, breaker speed tests, CT magnetisation curves, distribution transformer testing, etc. • Performing calculations for substations ensuring the discrimination between substations is correct. • The above installation and commissioning tasks is conducted in any area where the user client requires my duties. i) <i>(From 1 July 2000 to 28 August 2000)</i> I installed and commissioned a 11kV substation in Mali (North West Africa), where the user clients is Rolls Royce. ii) <i>(From 14 March 2001 to 21 January 2002)</i> I was the contracts Manager in Pofadder in North Cape, performing the electrical and instrumentation installations in Black Mountain Mine, contract value is R 1800000, where the user client is Anglo America.
Reason for leaving	Chorn Kirtland Riccardi (Pty) Ltd offered a challenge to perform the tasks as Residential Engineer at Dimension Data Campus. I liked it!!! Also offered better income.

10. CA du Toit (Pty) Ltd

Location of company	Fourways (Johannesburg Branch), GAUTENG
Type of company	Consulting services in Electrical, Electronics, Mechanical & Industrial Engineering
Salary earned	R 8 000-00 per month plus standard benefits
Last position	Senior Technician (Heavy Current) Reticulation and MV substation specialist for CA du Toit Johannesburg.
Period employed	From 01 Aug 1989 to 06 February 1999
Duties	Marketing, design, complete detailed preparation of tender documents, including the negotiations required to ensure the prepared documents and specifications are approved at supply authorities. CAD drafting, Site supervision, Detailed Contract Management. The last 5 years I was trusted to serve as projects manager for CA du Toit on various reticulation and substation projects. Last (7) seven projects with high construction value was investigated, designed, documents prepared and typed, drawings prepared on CAD system, supervised and managed by myself: • Brinks Vlakfontein (MV & LV Overhead reticulation of 720 stands for Metro Electricity). R 1 900 000-00 • Main 11kV intake switching station (19 panels) at Johannesburg International Airport. R 2 400 000-00 • Leeuwkop Prison Farm (Replace existing MV & LV overhead system with new MV & LV underground system, including street lighting) R 4 500 000-00 • Dobsonville Street Lighting of Roodepoort road. (4km road, Beka 250W HPS system) R2 000 000-00 • Kwa Thema Hostels. (Upgrade of hostel buildings MV, LV external and LV internal) R 2 400 000-00 • Upgrade of Dobsonville MV&LV Reticulation system, including reparation of existing damaged, sub stations, kiosks, etc. R 3 200 000-00 • Electrification of Infill sites in Dobsonville. Total stands reticulated at various positions in township is approximately 300 stands. R 1 100 000-00
Reason for leaving	I convinced myself that by working for Ukubona 2000, I will increase our living standards.

11. Midrand Town Council

Location of company	Midrand (Halfway House), GAUTENG
Type of company	New services and maintenance services to local public.
Salary earned	R 3 000-00 per month plus standard council benefits
Last position	Town Electrical Engineer's Technical Assistant
Period employed	From 01 February 1986 to 30 July 1989
Duties	Directly assisting the Town Electrical Engineer in any technical related issues. All substation testing, cable fault finding, consumer meter queries, new electricity connection costs, electrical account disputes and general technical assistance. Further to above I was also utilized to check and comment on designs submitted by consultants for approval.
Reason for leaving	The career satisfaction offered by CA du Toit was more appealing to me. Higher income was also offered.

12. SASOL II

Location of company	Secunda, MAPUMALANGA
Type of company	Oil, Petrol manufacturer.
Salary earned	R1 600-00 per month plus standard Sasol benefits
Last position	Test Technician (Test Department)
Period employed	From 01 July 1983 to 15 December 1985
Duties	Testing of MV substations, cable fault location, MV Protection circuit analysing and fault-finding including fault repairing.
Reason for leaving	Family decision to stay in the East Rand due to environmental negative impact on our two kids, after which I searched for work in the East Rand.

13. ESKOM

Location of company	Germiston, GAUTENG
Type of company	South Africa Electricity Supplier
Salary earned	R 870-00 per month plus standard Eskom benefits
Last position	Pupil Technician (Simmerpan - Test Department)
Period employed	From 01 April 1979 to 31 June 1983
Duties	Training at Grootvlei & Klip Power Stations. Training as test technician on protection circuits and protection schemes at Simmerpan test department section.
Reason for leaving	Completed training and studies. Sought better income.

TEORETICAL QUALIFICATIONS**Secondary Qualification (Matric, Grade 12)****Vryburger High School (Germiston)**

Vaknaam in Afrikaans	Subject name in English	Grade	Symbol
Afrikaans Eerste Taal	Afrikaans Primary Language	HG	E
Engels Tweede Taal	English Second Language	HG	E
Wiskunde	Mathematics	SG	C
Natuur en Skeikunde	Science and Chemistry	SG	C
Rekeningkunde	Accounting	SG	D
Bedryfsekonomie	Business Economics	SG	F

Tertiary Qualifications (T3)**University of Technology (Vaal Triangle)**

Vaknaam in Afrikaans	Subject name in English	Grade	Percentage
Wiskunde B	Mathematics B	T1	62%
Beginnels van Elektrisiteit	Electricity Principles	T1	57%
Toegepaste Tegnologie	Applied Technology	T1	62%
Ingenieurstekeninge	Engineering Drawings	T1	45%
Ingenieurswetenskap	Engineering Science	T1	55%
Toegepaste Meganika	Applied Mechanics	T1	83%
Algemene Studies	General Studies	T1	68%
Elektronika	Electronics	T1	57%
Komunikasië B	Communication B	T1	71%
Kalkulus A	Calculus A	T2	51%
Ingenieurswiskunde	Engineering Mathematics	T2	50%
Meganiese Tegnologie	Mechanical Technology	T2	53%
Elektrotegniese Ingenieurswese	Electrical Engineering	T2	58%
Elektriese Masjiene	Electrical Machines	T2	53%
Elektronika	Electronics	T2	53%
Sterkteleer	Strength of Materials	T2	58%
Ingenieurswiskunde	Engineering Mathematics	T3	52%
Meganiese Tegnologie	Mechanical Technology	T3	52%
Elektrotegniese Ingenieurswese	Electrical Engineering	T3	34%







