

## JOHANNES ENGELBRECHT

<b>Occupation</b>	<b>Electronic Engineer</b>
<b>Gender</b>	Male
<b>Nationality</b>	South African
<b>Favourite jelly beans</b>	Green
<b>Language</b>	English, Afrikaans
<b>Drivers Licence</b>	Code C1
<b>Job location</b>	Cape Town

### Contact Details

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<b>Skype</b>	risperdal3
<b>Residential Location</b>	Blouberg, Cape Town, Western Cape, South Africa
<b>Github profile</b>	<a href="https://github.com/Jannes123">https://github.com/Jannes123</a>

### Professional Profile

A proactive and hardworking Software Engineer with 7 years' experience in open source software applications, web development, network analysis script development and server infrastructure management in the IT industry. VOIP system configuration, including IP routing and physical server installation in data centres. Proven working experience in fault finding and installation of underground seismic equipment in the mining industry. Working knowledge of marine electronic and electrical systems. Fast to learn and configure new software frameworks and adapts quickly to new challenges and environments such as underground mining or working in isolation on long term projects. A responsible risk-taker with strong problem solving skills.

### Education

2008  
University of Stellenbosch  
**B.Eng. (E&E) Degree**

2002  
Outeniqua High School  
**Grade 12 (Matric)**

### Professional Courses / Training

SAMSA Day Skipper Certificate of Competence of Power Driven Vessel Category C <9m  
Competent Crew Certificate / Good Hope Sailing Academy  
M1 Basic First Aid Competency / Action Training Academy

### Skills used in Projects / Computer Software and Hardware Skills

Electrical system planning for 12V and 24V marine systems, sourcing and assembling components.  
Python programming.  
Apache web server with SSL security setup deployment for web backend services.  
Django MVC/T software framework, also Satchmo(E-commerce).  
Deploying Linux on cost-effective commercial virtual server.  
Freeswitch SIP/VOIP server with Python.  
Kamailio IVR and SIP trunk  
SIP protocol analysis (6 months) C++ Development (University final year project) for signal processing.  
Nagios and Nagios-plugin dev (bash+python) and NagiosGrapher setup for server monitoring.  
Linux system admin.  
Wired communication systems installation and debugging (Fsk-, 485-, 232- and ethernet-devices).  
VHDL Hardware programming.  
C Firmware programming.  
PC Board Layout  
Java programming.  
Basic BASH programming.  
Good general computer skills.

## Career History

1.	JUN 2015 - CURRENT
Callall Telecoms	
<b>SOFTWARE ENGINEER</b>	
<b>Overview</b> Python software development on voucher vending/redemption server.	
<b>Responsibilities</b> Software development for python/Django project Designing Client-Server vending system from scratch Managing outsourcing of Android application development User Interface design of web applications Linux server commissioning and maintenance and recovery	
2.	MAR 2015 - MAY2015
Kartoza	
<b>SOFTWARE ENGINEER</b>	
<b>Overview</b> Python software development on Inasafe project	
<b>Responsibilities</b> Software development for Inasafe project Develop command-line client for GIS application Reporting and planning during daily meetings	
3.	OCT 2014 - FEB 2015
Mezzanine Ware	
<b>MOBILE APP DEVELOPER</b>	
<b>Overview</b> Develop mobile web apps	
<b>Responsibilities</b> Application design with solutions architect. Develop reports as components of client solutions. Contribute towards an improved development environment and process. Perform quality assurance by means of unit tests and other testing strategies.	
4.	2013 – SEPT 2014
Top Water	
<b>BUSINESS OWNER</b>	
<b>Overview</b> Retail shop specialising in water purification systems.	
<b>Responsibilities</b> Directly managing 1 Store Assistant. Building an e-commerce website from open source components to promote the business using Django-Satchmo framework providing all components of a professional e-commerce shop. Installing a commercial Reverse Osmosis system on site. Marketing. Strategising. Training staff. Liaising with and selling to clients. Supply management. Resolving all technical issues. Setting up all the necessary admin and maintenance processes.	

<b>5.</b>	<b>2012</b>
<b>Telenexus</b>	
<b>ENGINEER / DEVELOPER</b>	
<b>Overview</b> A small start-up company focussed on providing value added VOIP services to bigger telecommunications companies.	
<b>Responsibilities</b> Attending shareholder meetings. Building a voice server running an open source PBX with dynamic dial plan managed with python code. Liaising with service providers and performing network wide debugging telephonically.	
<b>6.</b>	<b>2011</b>
<b>Callall Telecoms</b>	
<b>VOIP ENGINEER</b>	
<b>Responsibilities</b> Attending strategy meetings. Testing new VOIP products. Building basic test environments for prospective services. Managing infrastructure monitoring service (Nagios+NRPE). Configuring and installing voice servers into data centres.	
<b>7.</b>	<b>2010</b>
<b>Vox Telecom</b>	
<b>JUNIOR SOFTWARE DEVELOPER</b>	
<b>Responsibilities</b> Maintaining multiple projects and keeping code up to date in repositories. Receiving exposure to LAMP and IP networking as well as the production environment of web applications. Driving assigned projects until completion. Reporting to the team and team leader on a weekly basis.	
<b>Major Projects</b> Developing an auto configuration system for customer premise devices.	
<b>8.</b>	<b>2009</b>
<b>ISSI</b>	
<b>JUNIOR SYSTEMS ENGINEER</b>	
<b>Responsibilities</b> Planning and executing installations of seismic equipment. Repairing broken hardware, writing reports and occasionally assisting with manufacturing new products. Managing and planning routine underground site visits.	

### Description of Previous Projects

#### *Mezzanine mobile apps:*

*Design and build mobile applications using proprietary software tools exploiting RDBMS concepts.*

#### *Rebuild Linschoten Super Yacht (66ft [www.linschoten.co.za](http://www.linschoten.co.za)):*

Accessories refitted / rewired include:

- Electric Winches.
- Solar Regulator.
- Multifunction Display.
- Instrumentation.

Consolidated the existing electrical system into an acceptable state. Sourcing components with the correct specifications.

Planned installation and assisted with installing equipment.

Experienced boat builder who consulted with me concerning electrical and electronic systems when needed.

#### *Telenexus VOIP System (Building a commercial value added service):*

Configured VOIP servers and tested and debugged international routing functionality. The VOIP servers ran Freeswitch on Ubuntu Linux. The dynamic dialplan was coded in python using mod\_python. The user

interface consisted of a handset used to dial shortcodes and an IVR system which guided the user to make an international call.

*Auto Configuration Server for ADSL Modems:*

ADSL routers with custom firmware. Django was used to serve the configuration file to the modem. Routers were setup for secure VPN.

Vending system for MVNO prepaid airtime sales:

Django/Python server interfaces with Android app via API. Android POS prints voucher. User interface frontend built with bootstrap data served by Django.

### Key Strengths

Able to manage multiple projects simultaneously in a team environment.  
Focused, self-motivated and target driven; determined to succeed.  
Enthusiastic learner, eager to meet challenges.  
Willing to learn and adapt to changing environments.

### Endorsements

"Mr Engelbrecht was **always enthusiastic** about his tasks and **mastered new skills very quickly**, able to complete such tasks **rapidly and effectively**. He made a **significant contribution** to the success of this department. As a person he will be missed for the **quality of work** done as well as the **accuracy** with which things were done. He was a **dedicated and loyal individual** who always executed his responsibilities in a **diligent manner**." *Frans Cronje, Manager – Technical Services, ISS International Ltd*

### References

Available on request.