



PERSONAL STATEMENT

I am a 26 year old **computer engineer** currently based in Pretoria. I have a penchant for solving problems using software and digital circuitry. I have close to **4 years of experience** in the defence and aerospace industry primarily as an embedded **systems developer** and **signal analyst**. I'm passionate about the development of systems and enjoy working with people who share this passion.

EDUCATION

2005 - National Senior Certificate (NSC)
2009 **Sol Plaatje Secondary School**

2010- B. Eng Computer Engineering
2014 (Distinction)
University of Pretoria

2015- B. Eng Computer Engineering
2016 Honours (Distinction)
University of Pretoria

PUBLICATIONS

- **Cellphone 'fingerprints' can stop criminals**
Publication: Mail&Guardian
Published as part of the annual Mail&Guardian Science Voices competition. It gives an overview of the use of Specific Emitter Identification for identifying GSM cellphones.
- **Agile System Development for Rapidly Prototyped Micro-UAV Surveillance System**
Publication: International Council for System Engineers (INCOSE) 2015 Conference Proceedings
This publication details the application of agile methods to the full scale engineering development of a UAV-based surveillance system.
- **Specific Emitter Identification for Enhanced Access Control Security**
Publication: South African Institute of Electrical and Electronic Engineers (SAIEE) African Research Journal
This publication demonstrates the application of specific emitter identification or radio frequency fingerprinting to automated gate remotes as a means of protecting these gates against replay attacks.

PROFESSIONAL EXPERIENCE

Jan 2014 - Jul 2016

Denel Dynamics: Junior Engineer

I worked as a developer for GPS & inertial navigation systems used for missile guidance. My key responsibilities included development of embedded software development, application software development, modelling and simulation, as well as systems engineering.

Aug 2016 - Present

CSIR Contractor: RF & Signal Processing Engineering

I work as a developer for electronic warfare receivers, specifically instantaneous frequency measurement (IFM) receivers. My key responsibilities include RF engineering, systems engineering, development of automated test facilities and software.

SKILLS & CAPABILITIES

Programming

Python	○ ○ ○ ○ ○ ○ ○ ○
C++, C	○ ○ ○ ○ ○ ○ ○ ○
C#	○ ○ ○ ○ ○ ○ ○ ○
Octave, Matlab	○ ○ ○ ○ ○ ○ ○ ○
Java	○ ○ ○ ○ ○ ○ ○ ○
HTML, CSS	○ ○ ○ ○ ○ ○ ○ ○

Documentation

LaTeX	○ ○ ○ ○ ○ ○ ○ ○
Microsoft Word	○ ○ ○ ○ ○ ○ ○ ○

Languages

English	Fluent
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AWARDS

- Best Final Year Project in Signal Processing
- Denel Dynamics Overall Highest GPA for 2014
- Greatest Young Systems Engineers of the Year Winner

THINGS I ENJOY



Gaming
&
Game Development



Coffee



Machine Learning
&
Analytics



Movies
&
Series



Exploring Music
&
Music Production



Learning



Art
&
Design