

# Maia Grotepass

## Overview

Programmer with engineering training and 20+ years coding experience. Strong communication and team work skills. Experience programming Android, embedded power quality and embedded telecommunication software. Skills in learning new languages and operating systems quickly.

## Technical skills

Java, C++, C, Scala, Python, XML, UML, JavaScript, Pascal, SDL, SL1  
Android, Linux(Ubuntu), Windows, Integrity, QNX, UNIX.  
Mobile Development

## Professional experience

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### March 2012– Present: Android Development Freelance

#### *Android App Developer*

- Android developer just submitted [Wisher \(beta\) app](#). MVP developed in 6 weeks.
- Android developer for [Reality Gate](#)
- Code with Google submission  
<https://devart.withgoogle.com/#/project/16858063>
- [AfrikaBurn 2013 android app](#)
- Gust Pay android applications on the market as well as apps to do NFC access control and wallet enrollment.  
Gust Android apps in [this video](#).  
[Gust Finder](#).  
[Gust Pay](#).

### August 2010 – August 2014 MXit (<http://www.mxit.com>), Stellenbosch, South Africa

#### *Mobile Software Development Engineer*

- Developing Java Android Mobile application for [MXit mobile chat client](#).
- Android Mxit Mobile application Beta Trial and release management.
- Developing C++ bada Mobile application for MXit mobile chat client.

## **December 2006 – July 2010 Cobham-Omnipless, Westlake, South Africa**

### *Software Development Engineer*

- Developing, embedded software for satellite communication systems using UML in Rhapsody generated to C++ cross compiled for a PowerPC platform on Integrity operating system.
- Designing software subsystems and Implementing ARINC, GPS and Antenna communication protocols.

## **April 1999– November 2005 CTLab, Stellenbosch, South Africa**

### *Software Development Engineer*

- Developing, deploying and supporting embedded software for Power Quality Measurement Instruments. Development on QNX 4.25 operating system in C++ for a target running QNX 4.25 on a PC104 stack. Communications over TCP/IP.
- Writing shell scripts to support development and utilities on the QNX instrument.
- Doing Code Maintenance on DSP Code in the Power Quality Instrument in C. Texas Instruments TI320C32
- Installing and tweaking an open source NTP implementation for QNX.
- System Administration on the development server running Linux Debian Distribution.

## **Aug 1997 – March 1999 Nortel Networks Raleigh, North Carolina**

### *Software Development Engineer*

- Developing software for Nortel DMS10 end exchange in SL1 in a UNIX environment, developing ISDN provisioning software.
- Working in large development team according to company standards and procedures.
- Develop CGI scripts for Nortel intranet web pages in Perl and C and JavaScript.

## **1991 - 1997 Plessey SA, Tokai, South Africa**

### *Software Development Engineer, Senior Software Development Engineer*

- Developing PBX Call Processing software which runs embedded on an Intel 80186 processor for the PBX developed by Plessey. Working in C under UNIX operating system and cross compiling for Intel processor.
- Implement TCP/IP interface on PBX software that was ported to Windows '95/NT platform for simulation purposes. Simulated PBX was communicating with PC applications on the LAN.
- Plan and manage PBX feature development. Control Software code control system.
- Assist in deployment and configuration of PBX software at customer sites. Monitor customer site for field trial purposes.
- Train support technicians, support engineers and testers on PBX configuration, feature usage and PBX diagnostics. Organize weekly training sessions for software department.

## Education

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### **2010 – 2012 University of Witwatersrand, South Africa**

#### *M.A Digital Art*

- Research on the similarities and differences in software development process and creative process. Building installations in C/C++ OpenFrameworks libraries, OpenCV libraries and using opensource drivers interfacing with Microsoft XBox Kinect sensor. Working only on opensource software.
- <https://github.com/maiatoday>
- <http://maiatoday.blogspot.com>
- <http://www.maiatoday.co.za>

### **2005 - 2008 University of South Africa, South Africa**

#### *B.A Arts and Culture with specialisation in Multimedia*

- Implementing Animation installation using Java and integrating Ultrasound distance sensors providing algorithmic based visuals and communicating with a Python driven sound-scape generator.
- Creating Flash interactive work in the Open Laszlo open source framework which compiles to Flash.
- Awarded Best Multimedia student for 2008

### **1987 - 1990 University of Stellenbosch Stellenbosch, South Africa**

#### *B.Eng Electronic*

- Completed 4 year degree in minimum time.
- Final year project (Distinction): Software program in Pascal to extract speech samples from a database and do analyses on the samples to determine Fractal dimension of fricative phonemes.

## Interests

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Open source software community for Ubuntu operating system. Accepted as an Ubuntu member in 2010. <https://wiki.ubuntu.com/maiatoday> Drawing. Computer generated art.

## Languages

English - fluent, Afrikaans - fluent, French - basic, German - basic

## References

Supplied on request