

Gender: Male
 Date of Birth: 1976
 Location: Johannesburg

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GOALS Advancement of the State of the Art in Software Engineering. Problem Solving using correct application of technology.

EDUCATION

- *Master of Science*, Software Engineering, University of Hertfordshire,
- *Bachelor of Science*, Software Engineering Stream, UNISA, dual majors in *Computer Science* and *Information Systems* (distinction in *Information Systems*).

EXPERIENCE

Luno Staff Engineer within the *Earn* business unit. Develop backend software for and in support of earnings-related functionality. *July 2022 — March 2023*

Amazon L5 Engineer within the *Droplets and Data* business unit. Develop software for and in support of AWS Droplets infrastructure. *Oct 2021 — May 2022*

ACS Senior Developer within the *Terminal Software* business unit. Develop software for and in support of smartcard terminals. *May 2018 — Sep 2021*

Detnet SA Senior Developer within the *Embedded Software* business unit. Develop real-time software and device drivers. *Dec 2014 — April 2018*

MTN Senior Engineer, Researcher within the *Technology Innovation* unit. Employed a number of different methods in the implementation of directed research. Presented numerous technical workshops with the aim of knowledge dissemination within MTN. *Nov 2012 — Oct 2014*

CSIR, Meraka Institute Researcher, writer, developer, also served in an advisory capacity. *Jan 2007 — Oct 2012*

Altech Card Solutions Senior embedded developer, smartcard terminals. *Sep 2002 — Dec 2006*

Prism Payments Embedded developer, smartcard terminals. *Jul 2001 — Aug 2002*

Globepost Technologies Enterprise Solaris *C* developer. *Apr 2001 - Jun 2001*

LANmetrix Web and Systems Developer, network management software. *Jul 1998 — Mar 2001*

UNP Student laboratory consultant. *Jan 1998 — Jul 1998*

INDUSTRY

- Served for four years on the board of an *SABS* technical sub-committee (SC71L).
- Participated in a technical industry team (including Deloitte, Multichoice and various state departments) as part of the States *ICT Industry Initiative for Job Creation*.
- Participated in an independent policy research organisation (the *Free Market Foundation*).

TECH I'm expert in *C* on *Linux*, and familiar with most *Linux* software tools (gdb, valgrind, git, etc). I'm familiar with threaded programming, both *pthreads* and *C11 thread_t*, and with *sockets*. I've used *PostgreSQL*, *SQLite* and *MySQL*. I maintain a github profile that contains small samples of my skills. I've developed software professionally since 1998.

OTHER

ICT I'm familiar with most aspects of ICT, and expert at producing services, encryption and security, software architecture and digital microcontroller application.

Mentoring I've published (in printed publications at the CSIR) tutorials, introductory texts, etc. I regularly did presentations with a variety of technical and academic content.

CERTIFICATES OF SERVICE SINCE 2007 AVAILABLE ON REQUEST.