

LELANTHRAN MANICKUM

PERSONAL INFO

Date of birth
August 1976

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EDUCATION

BSc (UNISA)
Distinction

MSc (Hertfordshire)
Distinction

SKILLS

Development (Linux/Native)

Software (Devtools)

Time/Project Management

Software Design

Databases

Leadership

Network Programming

Embedded Software

Systems Architecture

INTERESTS

Systems Languages

Large Scale Services

High-performance Systems

Network Programming

Experienced developer with 20+ years, including Linux, embedded development and formal research. Very in-depth understanding of technology at all levels with particular emphasis on development and strategic planning.

Have completed some greenfields projects and coordinated efforts for existing larger projects. Mentored junior developers and lead directed research efforts at the CSIR, including various technology migrations.

Keen to leverage breadth and depth of experience in service of business needs.

EXPERIENCE

2018 - **ACS** - *Payment Terminal + Server/Cloud Developer*

Current

DUTIES:

- Maintain and enhance existing Payment Terminal Software
- Maintain and enhance Server Software for Terminals
- Identify and exploit any opportunities for existing and new products.

KEY ACHIEVEMENTS:

- ✓ Discovered and fixed product difficult bugs (Static Analysis + Valgrind).
- ✓ Rewrote Server Application for 20x performance gain, saving company millions in a deferred upgrade.
- ✓ Moved multiple services to Linux, reduced proposed Cloud expenditure by 75%.

2014 - 2018 **DETNET** - *Embedded Developer*

DUTIES:

- Maintain and enhance detonator control software and factory automation software.
- Contribute to the design and development of new products.

KEY ACHIEVEMENTS:

- ✓ Porting existing product to new platform.
- ✓ Improving the error-reporting capabilities of the control system, allowing easier tracking of bugs.
- ✓ Rewrite of test jig software to use **PostgreSQL** as Data store.

2012 - 2014 **MTN** - *Senior Developer/Researcher*

DUTIES:

- Technical workshops + presentations.
- Directed research, business opportunities.
- Software Development and mentorship.

KEY ACHIEVEMENTS:

- ✓ Patentable methods in Video Quality measurements.
- ✓ Creation and deployment of large backend VoIP systems.

2007 - 2014 **CSIR** - *Senior Researcher*

DUTIES:

- Authoring and production of research.
- Mentorship of junior researchers.
- Software and Product Development.

KEY ACHIEVEMENTS:

- ✓ Served on SABS SC-L71.
- ✓ Industry participation via conferences.
- ✓ Development of Open Source Scientific Computing Platform.
- ✓ Enhancements of 4000-node Grid Computer.

2002 - 2006 **ACS** *Embedded Developer*

2001 - 2002 **PRISM PAYMENTS** *Embedded Developer*

1998 - 2001 **LANMETRIX** *Linux Developer*

1998 - 2001 **UNIVERSITY OF NATAL** *Student Lab Consultant*