

RESUME of Francois Johannes LOUW

2015 March

Personal Detail

Name: Francois Johannes LOUW
Born: 31 December 1984, Pretoria, South Africa (**Age: 30**)
Citizenship: South Africa
Current Location: Kyoto, Japan
Legal Status: Student Visa (+Extra work activities allowed)
Marital Status: Unmarried
Language Ability:
English (Native, Business, Advanced Technical)
Afrikaans (Native, Business, Advanced Technical)
Japanese (Daily Conversation, Technical)
Spanish (GCSE Secondary Language)

Profile Photo



Contact Detail

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Secondary Email: francois.louw@aeif.info
Personal Website Address: <http://www.aeif.info>
LinkedIn: <http://lnkd.in/bxqTFuC>

Experience

- Part Time English Teacher. **(2 Years Experience)**
- Software Engineer. **(5+ Years Experience)**
- Hardware Engineer. **(5+ Years Experience)**
- Software Programmer. **(15+ Years Experience)**
(5+ Years experience after graduation)
- System Integration Engineer **(2+ Years Experience)**

Objective and Goals

- Target Job: **Applied engineering** in **hardware** and/or **software** in **research** and **development** areas.
- **Challenging projects** are preferred.
- Will always get the job done.
- **Personal Goal:** World Domination!

Academic History

- **Masters Degree student** at Minoh Laboratory, Graduate School of Informatics, **Kyoto University**, Japan, 2nd year student
Graduation Date: 2015/09. (GPA:4.0)
- **Graduate researcher** at Nakamura Laboratory, Graduate School of Electronic Engineering, **Kyoto University**, Japan.
- **Honours of Electronic Engineering** Graduate School of Electric, Electronic and Computer Engineering, University of Pretoria, South Africa (Partially completed – Stopped to continue studies in Japan).
- **Bachelor of Computer Engineering** School of Electric, Electronic and Computer Engineering, University of Pretoria, South Africa.
- **Zwartkop High School Graduate**, South Africa (**Graduated with Honours**)

Academic Accomplishments

- **Eskom Science Expo** Medals (Bronze 1997, Silver 1998, Bronze 2001, Gold + International Silver 2002).
- **Balcarras High School GCSE Academic Awards** for Math, Science, Information Technology.
- **Eskom Science Expo Performance Scholarship** (2003).
- **University of Pretoria Academic Achievement Scholarship** (2005&2006).
- **MEXT Scholarship** (2011/04-2013/3).
- **JEES Scholarship** (2014/4-2015/9).
- **Undergraduate Thesis Title:** Artificially Intelligent Chess System.
- **Undergraduate Thesis Summary:** Research and analysis of an AI system playing Chess by taking a brute force approach. Research was done into the possibility of brute force solving Chess. Optimisations in memory management and implementation methods were done to speed up the process in order to move closer to the goal of completely solving Chess.
- **Masters Degree Thesis Title:** Calibration of Linear Light Sources in Factory Automation Scenario.
- **Masters Degree Thesis Summary:** A method was developed to calibrate the origin, position and angle of a rigidly attached linear light source in a factory automation setting by utilising the factory line sensing camera itself. The results are used for virtual image reconstruction processes. The process involves first calibrating the camera to remove noise and then using noise free images to compute the camera calibration values.
- **“Pixel-Wise Radiometric Line Scanner Calibration”**, F.J. Louw, M. Iiyama, T. Funatomi, M. Minoh, *IAPR Conference on Machine Vision Applications 2015*.

Career

- **Part Time English Teacher** at Globe English School in **Osaka**, Japan (2013/05~Current).
- **Design, Development, Manufacture and sale** of Engine Control Units for Porsche 928 (2012~Current).
- Shared **ownership of company** Universal Mobile Technologies; **Research and development software and hardware engineer** (2010~Current).
- Parsec (PTY) Ltd. **Software and Hardware engineer** (2009/01~2011/03).
- **CEO and Software Programmer**, Brainwave Projects 729cc (2003/09~Current).
- **Co-founder and member** of JFK Engineering, a specialist electronic **engineering company** (2009).
- LMI (PTY) Ltd. **Software development**, Internship and part time jobs. Various software projects, practical implementation on remote sites. Remote software management (2002~2009 part time work).
- **Community based volunteer projects** to help previously disadvantaged schools (2006).
- Mine consultancy specialist **embedded software development** (2005).
- **Part time employment** at Ultra Electronics, England(2000).
- **Network administrator** at Balcarras High School, England (1999~2000).

References

- **Kotie Du Buisson: Director** at Libra Measuring instruments, Pty. Ltd. (<http://www.lmi.co.za>)
- **Petrus Pelsler: Executive Director** at Parsec Pty. Ltd. (<http://www.parsec.co.za>)
- **Ehrard v.d. Walt: Director** at Universal Mobile Technologies. (<http://www.umobiletech.com>)
- **Hiroyuki Kume: Instructor** at Globe English School, **Osaka**. (<http://www.globeenglish.com>)
(For privacy reasons, contact details are only available on request)

Skills & Abilities

- **Systems engineer** experience.
- Advanced algorithm implementation.
- **Machine learning** theory and application.
- Statistical machine learning(**Big Data**).
- Advanced **image processing**.
- **Factory automation** image processing.
- **Speech processing**.
- **Digital signal processing** experience.
- Data analysis experience.
- Test system design, implementation and testing.
- **Parallel computing** implementation and programming.
- **ISO 9001** QMS Implementation Engineer.
- National Instruments Labview Core 1, 2, 3 Intermediate 1,2.
- National Instruments Teststand.
- **VHDL** certification.
- **MATLAB** certification.
- **Hardware Design** qualification.
- PCB **Schematic Capture** (Mentor Graphics, Eagle, KiCad, Pspice).
- Cisco **CCNA** and **CCNP-BSI**.
- **C/C++**, **Embedded C/C++**, Pascal, Delphi, Visual Basic, **C#**, Java, JavaScript, Python, **MATLAB**, SQL, **Assembly** (x86, ARM, MIPS and Microchip)
- **Windows** and **Linux** programming experience.
- Experience in graphical interfaces and advanced graphics using **OpenGL**.
- **TCP/IP** Server/Client implementation experience.
- Specialised C/C++ Libraries: Qt, .NET, DirectX, OpenGL, OpenCV.

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