

Lloyd Hughes

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Professional Profile

Technically astute, well-organised and adaptable professional with 18+ months' invaluable software development experience acquired in the telecommunications and embedded software sectors. A highly effective, personable and valued team player with strong communication skills and leadership capabilities. Quickly engages with colleagues and clients to understand requirements and to deliver on time, to specification. Confident in challenging the status quo to drive innovation, enjoys inspiring others to achieve results. Holds numerous awards for excellence and academic achievements.

Education and Qualifications

MSc	Applied Mathematics (Computer Vision), 2013 – 2014; Cum Laude <i>University of Stellenbosch</i>
BSc	Electrical and Computer Engineering, 2009 – 2012; First Class Honours <i>University of Cape Town</i>
Matriculation	High School Matriculation, 2004 – 2008; Distinction Awarded

Software Engineering Experience

01/2015 – Present Software Engineer, *Garmin Southern Africa*

- Contributing to the development of innovative application software and firmware for products in the health and fitness field

10/2014 – 01/2015 Embedded Algorithm Development, *iKubu, Stellenbosch*

- Created algorithms for application in the Backtracker bicycle radar
- Produced high quality C and Matlab code for embedded systems and algorithm design

12/2013 – Present Business Partner, Lead Ruby & VoIP Developer, *EnigmaSoft (Pty) Limited*

- Led development and delivery of customised software solutions to meet call centre client needs
- Contributed to click2call, progressive and predictive diallers and reporting APIs initiatives
- Ensured effective integration with 3rd party software and CRM systems

Work and Vacation Experience

2009 – 2011	<i>Telkom SA Limited</i> Enterprise Software Development: Java EE Developer (12/2010 – 01/2011) Network Infrastructure and Planning: Integration Engineer (07/2011) Telkom Laboratories: Microwave Engineer (12/2009) Enterprise Software Development: Java Developer (12/2009)
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- Integrated Weblogic and Telkom LDAP authentication mechanisms into the Cross Domain Management (CDM) application
- Created an application to assist with real-time debugging of the CDM application
- Acquired invaluable experience with Java Management Extensions (JMX) and Java EE
- Following outstanding lab performance, participated on a large-scale enterprise system
- Supported design and tuning of stripline, bandpass filters for use on microwave equipment; conducted acceptance testing of microwave equipment
- Conducted detailed research into use of Adaptive modulation and coding in the existing Telkom backhaul network, delivered a whitepaper on the subject

07/2010 **Infrastructure Planning: Radio Planning Engineer, 8ta (Telkom Mobile)**

- Developed technical expertise by shadowing an engineer during site surveys, inspections and commissioning of new sites for cellular radio equipment

Other Experience

04/2012 – 05/2013 Partner and Director, *Precision Carp Tackle (Pty) Limited*

- Oversaw financial performance and budgeting, identified new business opportunities and supported technical development for a specialist import firm

01/2009 – 12/2013 Website and IT Administrator (Part-time), *Big 6 Tours and Adventures*

- Managed the organisation website, ensured robust technical support for networks, hardware and software

Awards

Bursaries:

- **National Research Foundation Innovation Bursary (2014)**
To enable innovative, ground breaking research
- **MIH MediaLab Postgraduate Bursary (2013 – 2014)** To pursue research in media related fields
- **Stellenbosch University Merit Bursary (2013)** For outstanding academic achievement
- **Telkom Bursary Student (2009 – 2012)** Based on outstanding matriculation performance

Undergraduate Awards:

- **City of Cape Town Corporation Silver Gilt Medal (2012)**
For best achieving graduating student in Electrical and Computing Engineering
- **Peralex Electronics Prize (2012)**
Awarded to the top student in the final year Digital System Course
- **UCT Class Medal (BSc Electrical and Computer Engineering) (2010, 2011 and 2012)**
- **UCT Computer Science Merit Award (Operating System Design) (2011)**
- **Golden Key Honours Society (2010)** Recognising the top 15% of students in engineering

Technical Skills

- *Good exposure to, and active user of:*
- **C/C++, Ruby, Matlab, Adhearsion, Redis, MySQL, Embedded System Design, Firmware development, Signal Processing, Computer Vision**
- *Previous exposure but not currently using:*
- **VHDL, Verilog, Java, Objective C, iOS Development, Ruby on Rails, ARM Assembler, X86 Assembler, OS Design**

Activities and Voluntary Experience

2013 – Present Committee Member / Web and IT Portfolio Support, *Cape Piscatorial Society*

- Creating a new society website and member management system (www.piscator.co.za)
- Assisting with club operations and providing guidance for all IT related issues

2008 – Present Field Editor, *Flyloops.net*

- Using 17 years' experience in the fly-fishing field to contribute to the Flyloops community, sharing knowledge and information
- Conducting venue reviews on fly-fishing establishments throughout South Africa

2012 PADI Rescue SCUBA Diver Certification

- Completed Emergency First Response course and training to achieve certified Rescue SCUBA Diver status

Personal Details

ID Number: 220390 5076 087
Nationality: South African
Languages: English (fluent), Afrikaans (conversational)
Driver: Full, clean licence