

Crispin David Lovell-Smith (ME, BE Hons)

Contact

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Nationality New Zealand

Languages English, Conversational
German

Birth Date 15 December 1981

Education

May 2010 M.E., Electrical and Electronic Engineering, University of Canterbury.
March 2004 B.E. Hons, Electrical and Electronic Engineering, University of Canterbury.

Previous Experience

2007 – 2009, Masters Study at University of Canterbury and ARANZ Scanning

- Foundation for Research Science and Technology (FRST) Masters scholarship.
- Design and prototype development of an optical tracking system.
 - Embedded software development in C using Analog Devices Blackfin, PC software development in C#, hardware design.
 - Real-time computer vision tracking algorithms.
 - Interfacing with CMOS cameras.

2007, Software Developer, Omega Technology, Christchurch

- C# development work on time management software.

2004 – 2006, Software Engineer, Comtest Instruments, Christchurch

- Software development work on vibration analysis product.
- Specifications, development, and testing in Delphi and C#.
- Created new server product to interface with existing software.

2003, Design Engineer, Navman NZ, Christchurch

- FRST student scholarship for final year research project.
- Design and prototype of a vehicle monitoring system.
- Embedded software development in C for Mitsubishi M16 series processors and Atmel AVR microcontrollers.

2002 - 2003, Design Engineer, Tait Electronics, Christchurch

- FRST student scholarship for summer student project.
- Design and development of trunked radio monitoring tool.
- Requirements specifications, PC software development in C++, and Java under Linux.

2001 - 2002, Software Developer, SALCOM, Christchurch

- Radio paging software.
- PC application software in Visual Basic 6.

2000, Electronic Assembly Technician, SALCOM, Christchurch

- Component soldering on electronic assembly line and detection of PCB faults.

Skills

Technical Skills

- PC software development experience
 - in assembly languages, C, C++, C#, Java, MATLAB, Visual Basic,
 - using MySQL, SQL Server, Interbase, and Firebird databases,
 - using source control (CVS/Subversion/Source Safe/Mercurial).
- Web technologies
 - Knowledge in PHP, HTML, XML, and CSS.
- Embedded software development experience with
 - Analog Devices Blackfin DSPs, ARM7 core processors, Atmel AVR family.
- Hardware development experience in
 - Altium Designer/Protel, board design using DSPs, and CMOS sensors.

Communication

- I am skilled in technical report writing developed through study at the university and by writing technical documents and design specifications.
- I communicate well with clients, management, and engineering peers.

Motivated

- I began programming at age 9 and took a tertiary level course when I was 11.
- I compete regularly in cycling and team multi-sport events.

Time Management

- Punctual.
- Effective time management gained through regular software releases at Commtest.
- I am able to balance my workload with other interests.

Team Work

- Enjoy working with others.
- Experience working in engineering teams and as an outdoor instructor.
- Lead hiking trips with friends.

Publications

C. D. Lovell-Smith, P. J. Bones, M. P. Hayes, R. A. Johnston, and N. B. Price, "Black spot: A prototype camera module," in Image and Vision Computing New Zealand, 2008. IVCNZ 2008. 23rd International Conference. IEEE, November 2008, pp. 1–6.

Additional Courses

Faszinatour "Hochseilgarten" Ausbildung, 2010
St Johns First Aid Certificate, 2003
Amateur Radio General Licence, 2002 (ZL3CL)
Grade 6 Trinity College Piano, 2001
University of Canterbury Workshop Practice, 2001
Alpine Snow Skills, 2001
Grade 5 Trinity College Music Theory, 1999
German Student Exchange Programme, 1998
Outdoor Leadership Course, 1998

Referees

Business
David Carter
Development Manager,
DataPro Solutions,
New Zealand
+643 376 4525
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Academic
Dr Michael Hayes
Senior Lecturer,
University of Canterbury, New
Zealand
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Personal
Dr Brendan Holland
Leibniz-Institut für Analytische
Wissenschaften - ISAS – e.V.
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