

TIM GURTO

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SKILLS

- C++, C, Java, Python L^AT_EX, SDL
- JavaScript, Bash, Lua, JNI Android framework, Winsock
- Miscellaneous: Agile development, object-oriented design, game design
- Environments: Visual Studio, gcc, SVN, Git, Perforce, Jira

RELEVANT EXPERIENCE

- Graduate Engineer** Breakaway Consulting Aug 2012–present
- For Motorola (team of 6–7 developers): hacked Android at multiple levels—native daemons, JNI middleware, the Android framework, and user apps—to offer tighter and customizable security to devices.
 - For Apkudo: (team of 4–5 developers): created a suite of server scripts and Android apps to facilitate large-scale device testing.
 - For Cochlear (team of 12–16 developers): maintained and tested the manufacturer’s interface to product firmware, ensuring its robustness and completeness.
- Software Engineer** NICTA Feb 2010–May 2011
- Team of 6–9 developers
 - Tested, tuned and greased the *Goanna* C/C++ static analyzer
 - Carefully considered the syntax, semantics and behavior of both C and C++
 - Vastly expanded the product’s suite of unit tests by writing hundreds of small, flawed programs
 - Designed new types of checks for *Goanna*, and maintained existing checks

EDUCATION

- BEng (Hons) – Software Engineering** University of New South Wales
- 3 months of industrial training as a Research Scholar at NICTA
 - Included courses in project management, operating systems, artificial intelligence, interface design, statistics, linear algebra
- Independent courses**
- *Algorithms I, Algorithms II*—Princeton University
 - *Model Thinking*—University of Michigan

AWARDS

- *Most Innovative Game* at Game Jam Sydney 2011
- *Microforte COMP4431 Prize* for the university’s best game prototype of 2010

MISCELLANEOUS

- Dual citizen of Australia and the United States
- Member of Engineers Australia
- Member of IGDA, and an active member of IGDA’s Sydney chapter

REFEREES

- Dr Ralf Huuck** Principal researcher and project leader, NICTA
Relationship: work supervisor ralf.huuck@nicta.com.au
- Dr Malcolm Ryan** Senior lecturer, Macquarie University
Relationship: thesis supervisor mail@wordsonplay.com