Javad Ebrahimian Amiri

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Education

2016–Now	**Ph.D. in Computer Science**, *Australian National University*.
Thesis Topic	*A Verifiable Foundation for Development of Programming Languages for Real-Time Systems*
2011–2013	**M.S. in Software Engineering**, *University of Tehran*, Iran, *GPA: 17.7/20*.
Thesis Topic	*Resource Management for Accuracy Improvement in Real-Time Systems: A Prototypical Implementation*
2006–2011	**B.S. in Software Engineering**, *University of Tehran*, Iran.

Career Interests

A practical research or engineering role in:

○ *system software, including operating systems, compilers and language runtimes*
○ *safety-critical embedded systems with real-time requirements*
○ *emerging many-core and heterogeneous systems*

Academic Experience

2017–2018	**Tutor of the Computer Organization and Program Execution course**, *Australian National University*.
2014–2016	**Convenor of the Operating Systems Lab**, *University of Tehran*.
2012–2016	**Tutor of the Operating Systems course**, *University of Tehran*.
Summer 2015	**Co-supervisor of two B.S. Students**, *University of Tehran*.
Fall 2015	**Educator of a workshop**, *Title: Conceptual study and preliminary performance evaluation of some RTOSs*, Sharif University of Technology, Tehran, Iran.

Selected Posgraduate Courses

○ High-Performance Computing *20/20*
○ Fault-Tolerant Systems *18.8/20*
○ Performance Evaluation *18.5/20*
○ Adv. Operating Systems *17/20*
○ Multi-Core Embedded Systems *20/20*
○ Adv. Computer Architecture *18.5/20*
○ Stochastic RT Systems *18.5/20*
○ Real-Time Systems *16.5/20*

Selected Projects

Rust & C	**A** programming language VM for real-time systems
	Porting a programming language VM to Rumprun-seL4

C & ASM	Hacking the network interrupt manager in RTEMS RTOS
C++	Adding fault injection and AVF calculation to the GEM5 full-system simulator
C# & Matlab	Simulation of a load balancing many-core system employing Model Predictive Control

Technical Skills

Programming Languages	**Rust, C/C++**, *X86 & ARM assembly, Java, C#, Python.*

Honors and Awards

Awarded	**Ph.D. scholarship for international students**, *Australian National University.*
	Supplementary Ph.D. scholarship, *CSIRO Data61 (NICTA).*
Ranked	**4th among 2000+**, *Ph.D. in software engineering entrace exam*, Iran.
	90th among 30000+, *M.S. in software engineering entrace exam*, Iran.
	394th among 200000+, *University entrace exam*, Iran.

Publications

J. E. Amiri and M. Kargahi. A predictable interrupt management policy for real-time operating systems. In *2015 CSI Symposium on Real-Time and Embedded Systems and Technologies (RTEST)*, pages 1–8, Oct 2015.