

# Peter Raffensperger

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Born 30 June 1986

## Education: BE(Hons I), PhD in progress

PhD, Electrical Engineering, University of Canterbury, Jul. 2009 to present.

Tentative thesis title: "Emergence of Rhythms in Learning Agents: Creating Robots that Play Drums"

Canterbury Scholarship, 2009-2012 (Fees + \$25000 per annum)

UC 'PhD in 3' presentation competition finalist, College of Engineering, Apr. 2010

IET 'Present Around the World' presentation competition winner, Christchurch chapter, Oct. 2009

NZi3 Research Award, 2009 (\$5000)

BE(Hons) with First Class Honours, Electrical Engineering, University of Canterbury, 2006 to 2008.

Cumulative GPA of 8.75 of 9

Summer Research Scholarship, 2008-2009 (\$5000).

Electrical and Computer Engineering final year prize, 2008 (\$500)

University Prize, 2008 (\$500)

R. D. Neale Memorial Prize, 2007

Direct entry to 1st professional year based on NCEA Level 3 results

NZQA New Zealand Scholarship, NCEA Levels 1, 2 & 3, Riccarton High School, 2000-2004.

New Zealand Scholarship in Chemistry, Physics and Calculus, awarded \$2000 per annum 2006-2009

Bruce Hills Endowed Prize for Creative Work (musical composition and arrangement), 2004

Boys' General Excellence Cup, 2004

Awards of Excellence in Calculus, Physics, Chemistry, English and Music, 2004

Peerswick Scholarship, 2000 (\$1000)

## Publications: machine learning & musician-computer interaction

*A Simple Metric for Turn-Taking in Emergent Communication*, P. Raffensperger, R. Y. Webb, P. J. Bones, A. I. McInnes, Adaptive Behavior, In Press. (Journal Article)

*Motion to Music Interface*, P. Raffensperger and M. Hayes, Proc. Electronics New Zealand Conference 2008, Auckland, New Zealand. (Conference proceedings)

## Work experience: tutoring, engineering & musical composition

Tutor, UC Department of Electrical and Computer Engineering, Jul. 2009 to present.

Technical support engineer, AuCom Electronics, Mar. to Jun. 2009.

Summer engineering student, AuCom Electronics, Nov. 2007 to Feb. 2008.

Commissioned by Christchurch Symphony Orchestra violinist Cathy Irons to compose a piece of music for piano and violin, 2007.

Technician and apprentice engineer, Sigenics Inc. (my uncle's company), Feb. 2005 to Feb. 2006.