James Shorten
Computer Engineer

about
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nationality
South African
Irish

languages
First: English
Literate: Afrikaans

programming
C/C++
ObjectiveC
openCV
C#
Git
Mac
Windows

other skills
Robotics
VHDL
Electronic Design
PCB Layout
Mechanical CAD
Computer Vision
Technical Writing

achievements

2013 — **80% for EPR402 (Project 402)** — University of Pretoria
My final year project was an "Image Guided Robotic Feeding System for Disabled People" for which I achieved a mark of 80%. Technologies used included: openCV, C++, Objective-C, Cocoa, Arduino, CAD and EDA tools.

2013 — **Winner SAIEE National Student Project Competition** — SAIEE
Won the South African Institute of Electrical Engineers National Student Project Competition for my final year project.

2013 — **1st Place in University of Pretoria EECE Final Year Project Competition** — University of Pretoria
1st place in Computer Engineering category and Overall winner of the University of Pretoria's department of Electrical, Electronic and Computer Engineering's final year Project competition

2012 — **1st Place CSIR Cyber War-games** — CSIR
Team placed 1st in the first CSIR DPSS Command, Control and Information Warfare Cyber War-games.

2008 — **Achievement Bursary** — University of Pretoria
Awarded Achievement Bursary based on high school results.

2007 — **Top 40 in National Computer Science Olympiad** — Hilton College

2006 — **1st Place SAASTE National Science Olympiad** — SAASTE

interests

Embedded Computing, Mobile Computing, Computer Vision, Robotics

education

2008-2013 **Bachelor of Engineering: Computer Engineering** — University of Pretoria, Pretoria

2003-2007 **High School** — Hilton College, Hilton

Subject	Mark	Symbol
Afrikaans (2nd Language HG)	71%	B
English (1st Language HG)	80%	A
Computer Studies (HG)	86%	A
Physical Science (HG)	88%	A
Mathematics (HG)	83%	A
Accounting (HG)	81%	A
Art (HG)	82%	A

experience

Dec 2011-Jan 2012 **Conlog, Durban** — Internship
I Developed a project tracking system for the systems software division using windows forms, C, asp.net and SQL Server 2008.