

Tim van Boxtel

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Toronto, Canada

CATCHY ONE LINER

Solving challenging problems through rigour, tenacity, and intellect

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WORK EXPERIENCE

Independent Contractor - *Toronto Canada*

Freelance Engineer, 2011 - 2013

- ▶ Diverse range of engineering and analytical solutions delivered to clients such as electrical circuit design, software development, analysis
- ▶ Work delivered quickly with a careful attention to detail
- ▶ Lean and innovative solutions delivered to several Toronto start-ups

centrotherm Photovoltaics AG - *Blaubeuren Germany*

Senior Process Engineer, 2008 - 2011

- ▶ Part of a global team of engineers developing and implementing cutting edge solar cell manufacturing processes and equipment developments to the fast paced solar cell industry
- ▶ Responsible for the commissioning of front-end solar cell manufacturing equipment globally
- ▶ Optimized customer and in house photovoltaic manufacturing processes, to improve overall through-put, yield, and electrical performance of manufactured cells

Teaching Assistant - *Stuttgart Germany*

Universität Stuttgart - Physikalisches Institut, 2006-2007

- ▶ Served as an academic teaching assistant in the electronics class for undergraduate physics students
- ▶ Oversaw groups of students working through various levels of practical circuit analysis and graded weekly reports

Educational Coordinator - *Hamilton Canada*

McMaster Fireball Show, 2003-2004

- ▶ Lead presenter of a touring interactive show aimed at attracting students to science and engineering
- ▶ Involved operating autonomously with a small team touring Ontario high schools, performing a dynamic, interactive and entertaining presentation

Senior Team Member / Design Engineer / Driver - *Hamilton Canada*

McMaster University Solar Car Project, 2003-2005

- ▶ Student team project to design, construct, and race solar powered vehicles
- ▶ During my involvement, 2 solar cars were built, which subsequently raced in The cars participated in the 2004 FSGP and 2005 NASC

EDUCATION

Universität Stuttgart (*Stuttgart, Germany*)

M.Sc in Physics, May 2008

McMaster University (*Hamilton, Canada*)

B.Eng in Engineering Physics, May 2005

Coursera, (*MOOC Platform*)

To date completed 5 courses in the areas of Economics, Finance, and Data Analysis with distinction and certificates where available. Dec. 2012 - Present

SKILLS

Extremely diverse skill set with a very high capability to learn what is required in order to solve a problem

A broad understanding of physics and its applications to industry

Strong working knowledge of programming, preferring *Python*

Several years experience with standard Linux programs and their configurations, version control systems, preferring *git*

Organized, diligent self-starter with an entrepreneurial spirit

Very well travelled at a professional and personal level

Fluent in English and German

INTERESTS

Hobby musician, > 20 yrs experience playing guitar; currently becoming acquainted with the piano

Love of all things science

Cooking, and more importantly, eating