

Maurice Aarts, MSc | Curriculum Vitae

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♂ Feb-23-1986, Oosterhout, NL • Nationality: Dutch, The Netherlands

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Experience – Professional (Full-Time)

Riscure Security Lab

Delft, NL

Security Analyst

2014 – Present

Security evaluations of embedded products and software solutions in a state-of-the-art lab. Activities include: analyzing threats and weaknesses; specification-, architecture-, code-, and hardware reviews; tool development; and HCE-, EMVCo-, and TEE evaluations. Riscure provides reports and recommendations for improving the security. Other tasks include consultancy work, research, tool development, and training. Current focus:

- HCE
- Smartcards
- Mobile Payment
- NFC
- TEE
- SecureElements
- EMVCo
- Android

Riscure Security Lab

Delft, NL

MSc Thesis/Internship on Electromagnetic Fault Injection on Smart Cards

2013

Research, refinement, and further development of electromagnetic fault injection techniques.

Experience – Professional (Part-Time)

International Tape Company B.V.

Tilburg, NL

Lead Webdeveloper and Software Engineer

2010 – 2013

Design and implementation of multiple applications for sales, inventory and administration departments.

Cartoseal B.V.

Tilburg, NL

Lead Webdeveloper and Software Engineer

2006 – 2010

Development and updating of company website, building custom scalable software for sales, administration and inventory management.

Cartopack B.V.

Tilburg, NL

Software Engineer, Web Developer

2006 – 2008

Development of an online product catalog with shopping cart system backend with client-customized website frontends, linked to a live intranet based database system.

Education

Kerckhoffs-Institute

Eindhoven, Enschede & Nijmegen, NL

Master of Science in Computer Science & Engineering - Information Security, MSc

2011–2013

Kerckhoffs-Institute is a collaboration between Eindhoven University of Technology, the University of Twente, and Radboud University Nijmegen. The Master track focuses on Computer Security and Information Security Technology.

– **Thesis:** Electromagnetic Fault Injection using Transient Pulse Injections (on Smart Cards)

Eindhoven University of Technology

Eindhoven, NL

Bachelor of Science in Computer Science, BSc

2007–2012

Eindhoven University of Technology

Eindhoven, NL

Bachelor of Science in Applied Physics, Incomplete

(discontinued) 2005–2007

Discontinued study as the courses were not entirely to my expectations.

d'Oultremont College Drunen

Drunen, NL

VWO Diploma in Natuur+Techniek & Natuur+Gezondheid

2001–2005

Diploma for both the Science+Technology and Science+Health tracks

Lewisville School System

Richburg, SC, USA

2nd through 9th grade

1994–2001

Took part in the ACCENT Talented student program.
Moved from SC, USA to the Netherlands in May of 2001

Miscellaneous

Dutch Robotics

Eindhoven, NL

Software Developer, Eindhoven University of Technology

2008 – 2012

Research groups at the three universities of technology in the Netherlands, (Eindhoven, Twente, Delft), have agreed to join efforts in creating humanoid robots, cooperating in the Dutch Robotics initiative. The Dutch Robotics project is part of a long term vision shared by the three Dutch universities and the Dutch industry for the development of a new generation of robots.

Eindhoven University of Technology

Eindhoven, NL

Teaching Assistant, Programming 1

2009

Helping students learn the basics of programming using Java. The course consisted of a lecture and practical lessons. The lectures were given by a professor and the practical lessons were done by myself along with another teaching assistant.

Cartoseal B.V.

Drunen & Tilburg, NL

Sales Department, Summer Internships

2004 – 2006

Languages

Dutch: Native/Fully Fluent

English: Native/Fully Fluent

German: Basic

Moderate understanding and basic speech and writing only

Computer skills

Basic: Assembler, Visual Basic, Adobe Flash, Unix, OS-X, Postfix, Android, iOS

Intermediate: Python, Perl, XML, Javascript, Apache, UML, IRC, DNS

Advanced: HTML, XHTML, CSS, L^AT_EX, SQL, PHP, C/C++, Java, Linux, Windows

Security: HCE, EMVCo, CC, TEE, code-review, pentesting, side-channel attacks, SPA, DPA, fault-attacks, glitching, encryption, reverse engineering, brute-forcing, PGP, SQL-injections, XSS, CSRF, ethical hacking, social engineering, phishing

Accreditations and Awards

2015: Certified Common Criteria Evaluator for both the Dutch (NL) and German (DE) CC Schemes.

2001: 1st Place winner & MVP 4H-Energy Challenge - State Finals, South Carolina, USA

1999: Presidents Award for Outstanding Academic Achievement, South Carolina, USA

Activities and Societies

2011 – 2014: Member of Kerckhoffs-Institute, including Study association “Auguste” (for Kerckhoffs-Institute students)

2007 – 2014: Member of Study association “GEWIS” – **GE**meenschap van **W**iskunde en **I**nformatica Studenten (Community of Mathematics and Computer Science Students)

2005 – 2009: Member of SVTN “J.D. van der Waals” (Study association for Applied Physics)

2006 – 2009: Member of SVTN “J.D. van der Waals” – Dispuut Superstring - Chairman (2006 – 2008)

Interests

Computer Science, Programming, Software/Web Development, Physics, Technology, Robotics, Mathematics, Security, Information Technology, Hacking, Electronics, Smart Cards, Android, Mobile Payment, Skiing, Hiking, Driving, Climbing & Bouldering