Gijsbert **ter Horst**
Software Developer

personal
sex
Male
birth-date
March 25th 1991

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languages
(native) Dutch
English
(some) Norwegian
(bad) German
(worse) French

programming
Typescript
C# .NET Core
Python 3
MongoDB
CSS & HTML
Javascript
C
SQL
Lua
PHP
Java

software
LaTeX2e
Visual Studio Code
Eclipse
Visual Studio
Git
GIMP
Inkscape
Dia
Blender
FreeCAD
LibreOffice
Audacity
Handbrake
Arduino IDE
Armitage
Wireshark
Aircrack-ng
QLC+

education

| 2009–2018 | **Student** Computer Science | University of Twente, Enschede |
| 2002-2008 | **VWO** N&T+N&G, Informatics, Latin | Bonhoeffer College Bruggertstraat, Enschede |

experience

2016–now Intar B.V. Enschede, Netherlands
Software developer full-time
We create an IoT enabled low-code platform that makes it easy to automate complex processes for the non-technical end-user.
Seconded to Sigmax for several months for SQL queries, OAuth2 integration, AngularJS refactoring and optimisation, AngularJS to Angular rewrite, etc.

2014–2016 Controllab Products B.V. Enschede, Netherlands
Software developer zero-hour contract
- Implemented evaluation version of coupling between 20-sim and Matlab through Apache XMLRPC + Matlabcontrol.
- Created GCAT Evaluation, a test suite that *dynamically* verifies the correctness of C-code generated by 20-sim.
  Written in bilingual Python (2.7/3.4).
- Research on the possibilities of static analysis of the C-code generated by 20-sim, focused on MISRA C compliance.
- Automated tracking of issue tracker statistics, calculates related ISO9001 KPI process over time.
- Set up centralised user account system using Samba on Debian.
- Set up groupware server for mail and calendar system

2012–2017 University of Twente Enschede, Netherlands
Undergraduate Teaching Assistant zero-hour contract
Teaching, examining, and grading students.
- Operating Systems in 2012 & 2013
- Databases in 2013
- TOM: Data & Information in 2014
- TOM: Operating Systems in 2014–2016
Twente Academy/Pre-U: Educational developer and teacher
Pre-U (formerly Twente Academy) is the university's pre-university college.
- Developed and taught of Masterclass Hacking in 2013–2016
- Guidance of secondary school final projects in 2014–2017
- RED Engineers Challenge, primary school guest teacher in 2014

2012–now Personeelsservice Nederland B.V. Enschede, Netherlands
Stock-taker zero-hour contract
Pays legal minimum wages, part of the company revenue is paid to charities.

2009–now THICT Boekelo, Netherlands
Owner
My own company, which is dormant right now.
- 2017: Developed a central heating system leak testing machine for Emergo Hout & Bouw B.V.
- 2010: Developed two machine interfaces for Beun- De Ronde B.V.
- Helpdesk and troubleshooting
- General IT advice (hardware, software, licensing, legal)

| 2007–now | **DWN** | Netherlands |
| | *Volunteer* | zero-hour contract |

No wages, the company gives directly to charities for every hour worked.
- Technician at De Oude Usselerschool
  - Audio, video & stage lighting
  - Maintenance of technical facilities
  - Replaced analogue (PAL) video system with digital system in full HD.
- Stock-taker
- Minor jobs: cleaner, construction worker, crew marathon Enschede

| 2013–2014 | **Bonhoeffer College location Bruggertstraat** | Enschede, Netherlands |
| | Computer Science teacher | internship |

A year later one of the computer science teachers who mentored me during the internship left, and I was offered the post. I had to turn down the offer at that time.

| 2008-2009 | **PSS Development** | Stadskanaal, Netherlands |
| | *Software Engineer* | full-time volunteer through A-Team Pagedal |

- C# ASP.NET web applications
- T-SQL databases, design and coupling to legacy systems

publications

| 2018 | **Bachelor's thesis** | Proceedings of the 29th Twente Student Conference on IT |

LoRa Passive Positioning: Analysis of the effects of various parameters on performance

awards

| 2013 | **Cake** | University of Twente, 19th Twente Student Conference on IT |

Cake for *Best Poster and Explanation* for team project: Solver for GearSketch

| 2018 | **Nomination** | University of Twente, 29th Twente Student Conference on IT |

Nominated for Best Paper for bachelor's thesis

communication skills

software: With design experience in software teams I am well versed in the discussions around design choices. I can explain and defend my choices, and accept when the final design will not be as I envisioned.

client wishes: I have done some work for my own company where I discuss the client's wishes with them. When I do live A/V work for parties, weddings or funerals I ask the client their wishes, and show what I can do for them.

presentation: With various jobs in education, I have experience in how to present information in a way that improves clarity and facilitates understanding.

print production: Though not particularly talented at graphical design, I have some insight into the process of transferring digital media to print, using free tools such as GIMP, Inkscape, LaTeX, etcetera.

interests

professional: internet of things, information security, system security, UNIX-like operating systems, computer hardware, software, FOSS software, software licenses, information law, source management

personal: books (fantasy, sci-fi), hacking hardware and software, GNU/Linux, Arduino, OpenMW, Raspberry Pi, domotics, rocket science, and many other things

religious: Christian (Brunstad Christian Church)