

# Gijsbert ter Horst

Software Developer

## personal

**sex**  
Male  
**birth-date**  
March 25<sup>th</sup> 1991

## contact

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ghostbird.nl

## languages

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

## programming

Typescript  
C# 12  
Angular 17  
MongoDB  
Javascript  
Python 3  
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+

## hardware

Custom desktop  
Raspberry Pi's  
Arduinos  
ESP8266s  
ESP32s

## operating systems

(current) Debian  
LMDE  
Linux Mint 13  
Ubuntu 9.10-11.04

## 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 over a year 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 and graphs related ISO9001 KPIs 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 29<sup>th</sup> Twente Student Conference on IT  
LoRa Passive Positioning: Analysis of the effects of various parameters on performance

## awards

2013 **Cake** University of Twente, 19<sup>th</sup> Twente Student Conference on IT  
Cake for *Best Poster and Explanation* for team project: Solver for GearSketch

2018 **Nomination** University of Twente, 29<sup>th</sup> 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, Raspberry Pi, rocket science, and many other things

**religious:** Christian (Brunstad Christian Church)