

Gijsbert ter Horst

Software Developer

personal

sex

Male

birth-date

March 25th 1991

contact

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Netherlands

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github.com/ghostbird
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+

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)

hardware

Custom desktop
Raspberry Pi's
Arduinos
ESP8266s
ESP32s

operating systems

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

2007–now

DWN

Volunteer

Netherlands

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, Raspberry Pi, rocket science, and many other things

religious: Christian (Brunstad Christian Church)