

# Gijsbert ter Horst

Software Developer

## personal

### sex

Male

### birth-date

March 25<sup>th</sup> 1991

## contact

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github.com/ghostbird  
ghostbird.nl

## languages

(native) Dutch

English

(some) Norwegian

(bad) German

(worse) French

## programming

Typescript

C# .NET Core

Python 3

CSS & HTML

Javascript

C

SQL

Lua

PHP

Java

## software

L<sup>A</sup>T<sub>E</sub>X<sub>2</sub><sub>ε</sub>

Visual Studio Code

Eclipse

Visual Studio

Git

GIMP

Inkscape

Dia

Blender

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.**

*Software developer*

Enschede, Netherlands

full-time

Intar is a three man company where we create our platform that makes the possibilities of the Internet of Things available to the non-technical end-user.

Seconded three days a week to Sigmax as Product Implementation Specialist for 10 months.

2014–2016 **Controllab Products B.V.**

*Software developer*

Enschede, Netherlands

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**

*Undergraduate Teaching Assistant*

Enschede, Netherlands

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.**

*Stock-taker*

Enschede, Netherlands

zero-hour contract

Pays legal minimum wages, part of the company revenue is paid to charities.

2009–now **THICT**

*Owner*

Boekelo, Netherlands

My own company, which is dormant right now.

- 2017: Developed a 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 Stretch  
(current) Raspbian  
LMDE  
Linux Mint 13  
Ubuntu 9.10-11.04

## games

OpenMW Morrowind  
Kerbal Space Program  
Discworld MUD  
Dwarf Fortress  
Minecraft  
Myst & Riven

## authors

J.R.R. Tolkien  
T.D.J. Pratchett  
C.S. Lewis  
R.C. Thompson  
W.B. Watterson

- 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)