Curriculum Vitae

Contact information

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Personal information

Date of birth:	June 14, 1985
Place of birth:	Leeuwarden
Gender:	M
Marital status:	Unmarried
Nationality:	Dutch
Attached information:	*Work experience, Personal profile and motivation*

Education

Completed in 1997:	Basisschool Wiarda Skoalle, Goutum
Completed in 2002:	HAVO – profile Natuur & Techniek, CSG Comenius, Leeuwarden
Completed in 2008:	Technische Informatica – Bachelor of Engineering, NHL, Leeuwarden

Vehicle licenses

Rijbewijs -B (Driving license), Light Aircraft Pilot License -S

Written / spoken languages

In order of proficiency:	Dutch, English, Frisian, German

Qualifications

Programming language experience:
- Objective C, Object Pascal/Delphi, C/C++, PHP, JavaScript

Professional experience with:
- Programming environments and development tools: Apple Xcode, Embarcadero Delphi RAD Studio, Microsoft Visual Studio
- All aspects of native Apple iOS application development
- The process of publication in the Apple App Store, the "approval process" including its constraints. Consultancy and advice on the process and working together with Apple on solutions
- Enterprise distribution of native iOS apps. Consultancy and advice on this process
- Various additional API's, Frameworks and Libraries; Apple ARKit, Core Bluetooth, tvOS SDK, Apple WatchKit SDK, JSON/REST, SceneKit (3D/OpenGL), Google Maps API, Google Geocoding API, Sparrow Framework, Facebook/Twitter SDK, Cinema 4D SDK and other Apple Frameworks that are required for mobile development
- Various input devices for Motion Capture systems (also integration with Maxon Cinema 4D), including HID-devices, infrared trackers, IMU-platforms (Gyro/acceleration/compass) and precise magnetic field trackers, Oculus Rift SDK
- Usage of various Vision algorithms for process automation or capturing motion
- Web development: HTML, PHP, JavaScript, MySQL, CSS, Bootstrap, Adobe Dreamweaver, PayPal automated payment systems, FastSpring payment platform, dynamic webpages using the AJAX principle
- General design work and image editing: Adobe Photoshop
- Multiple embedded systems/controllers (PIC, Arduino, BeagleBone Black, RaspBerry Pi)
- Business aspects: Finding customers, acquisition, planning, and marketing/publicity
- Document editing and administration and presenting software: Microsoft Office (Word/Excel), Apple (Numbers/Keynote), Prezi, Lucidchart and Google Apps for Business

Additionally (includes non-professional):
- Development of live tracking system for General Aviation (sports) purposes
- In-depth background knowledge about the working of satellite navigation systems (GNSS) and specifically Global Positioning System (GPS), including Augmentation systems
- Other development tools & environments like NetBeans, Eclipse, Maple, Matlab.
- Aerial photography or video (Licensed by Dutch Ministry of Defense)
- Worked in multidisciplinary team on design and construction of advanced high-performance boat driven by solar energy (Frisian Nuon Solar Challenge), involved as pilot & strategic command during race, designing real-time telemetry system
- 3D modeling: Rhino 3D (technical work)
- Video editing: Apple Final Cut Pro X, Sony Vegas Pro, Adobe Premiere Pro
- Audio editing/creation: Propellerhead Reason, Adobe Audition

Current personal interests & activities:
- Active in aviation; flying multiple types of gliders, performing cross country flights, participating in national and European contests, obtaining Private Pilot's License/RPL to fly powered aircraft. Also on a smaller scale; flying model aircraft
- Spaceflight: high level of interest in current and historic space exploration missions, including space navigation methods and spacecraft systems
- Financial markets
- Playing piano
- Developing/programming/hacking my own projects, utilities and games
- GliderTracking - Overall lead developer for live tracking system
- Dutch Electric Glider Challenge – Commission to form the foundation for a 1st edition of this general aviation event

Work experience [1]

Company:	Logic Design
Function:	Founder/owner, Software architect
Location:	Leeuwarden
Period:	May 2010 – present

Function description:

- Development of various (native) iOS applications for leading companies, including (in partnership with) Tizin Mobile; MyOrder, Athlon Car Lease, Dienst Uitvoering Onderwijs, Agentschap Telecom, Vitens, Wetterskip Fryslan and Friesland AV
- Development of various (native) iOS applications as own productions
- Development for AppleTV with the new tvOS SDK
- Development for Apple Watch using the WatchKit SDK
- Consultancy on privacy aspects in collecting data on mobile platforms
- Consultancy on Enterprise distribution for large internal projects
- Consultancy and customer guidance for the Apple "approval process" and working together with Apple on solutions
- Customer guidance for publication of applications in the Apple App Store
- Work on secure transfer of data between mobile apps and server including payment systems
- Advice on websites and automated online payment systems
- Keeping myself ahead of others and up-to-date with the latest development tools; Apple beta products, visiting conferences like RAD Studio XE3 World Tour
- Starting a company (sole proprietorship), creating plans and bringing in new clients

Project references/results:
- Corporate mandown alert app, incl. bluetooth accessoires. www.guard-mandown.nl
- Mobile payment app. www.myorder.nl
- Mobile loyalty system for store owners. https://www.rabobank.nl/bedrijven/betalen/myorder-sidekick
- Fuel pricing app for Athlon. https://itunes.apple.com/nl/app/athlon-brandstofprijs/id403715114?mt=8
- Damage report app for car rental service. https://itunes.apple.com/nl/app/schade-check-app/id850408997?mt=8
- Social communities app. https://www.socie.nl/nl/
- Motion design, capturing sensordata via iXplorer app and now also with ARKit. https://www.griptools.io/
- A fun side project that got lots of attention. https://www.macrumors.com/2015/11/06/apple-tv-4-web-browser-tvos-hack/
- Tracking system built in spare time for use during national and international gliding contests. www.glidertracking.com

Company:	SpaceLeap GmbH
Function:	Co-Founder
Location:	Vienna/Leeuwarden
Period:	Early 2014 – present

Function description:

- Developing Unmanned Aircraft Systems (UAS)
- Development of Real Time Kinematics (RTK) system running on mobile platforms providing very precise GPS location accuracy while using low-cost GPS hardware
- Development of automated drone landing systems
- Gaining experience at startup accelerators, startup events and fund raising

Club:	Friese Aero Club
Function:	Board member
Location:	Leeuwarden
Period:	2015 – present
Function description:	

- Board member on the local flying club

Company:	GliderTracking (non-profit)
Function:	Co-Founder
Location:	Leeuwarden
Period:	Nov 2008 – present
Function description:	

- Overall lead developer for live tracking system
- Field support; building/maintaining hardware for nation wide receiver grid
- Field support; during national gliding contests

Company:	Friesland AV
Function:	Software engineer
Location:	Goutum
Period:	May 2008 – April 2010
Function description:	

- Development of a (native) iPhone application and a Mac OSX application to communicate with the mobile app. Publication in the Apple App Store
- Development of various motion capture systems for Windows & Mac. Related aspects like 3D simulation of various motion platforms (airplane, helicopter) and hardware interfacing
- Active in development of 3D-chromakey principle
- Work on efficient and effective real-time filtering methods
- Development of dynamic websites and online automated payment methods
- Development of a system for automatically generating PDF invoices

Company / department:	Stentec Software BV / dep. software development
Function:	(Graduation internship) Software developer
Location:	Heeg
Period:	August 2007 – January 2008
Function description:	

Graduation project "Attitude determination using GPS – a study on a Satellite Compass". This project was unique for my (HBO) education; a project with an inquisitive nature, instead of routine work. Research subjects where; Developing automated (dynamic) position filtering, analyzing raw GPS "pseudorange" data using multiple GPS receivers in one system. The final grade for the project was: 9.

Company / department:	**Stentec Software BV / Software dep.**
Function:	Software developer
Location:	Heeg
Period:	February – May 2008

Function description:

Follow-up research "Attitude determination using GPS". To summarize, I continued to work on the project at Stentec after finishing the graduation internship.

Company / department:	**Computer Vision Lab &** **Kiestra Lab Automation BV / Research dep.** **(BD Kiestra)**
Function:	(Internship) Software developer
Location:	Drachten
Period:	January – June 2007

Function description:

Working within a team on the development of software, to analyze biologic samples using Vision technology. Unique to this internship was being able to directly test the product (in development) at customers, during which I frequently needed to work together with these customers.

Also at Kiestra, I continued working on the project after finishing the internship period itself, during the summer holydays.

Company / department:	**Interay BV / afd. Software Ontwikkeling**
Function:	(Internship) Software developer
Location:	Bergum
Period:	augustus 2004 – januari 2005

Function description:

Mainly work on a new embedded PC system utilizing the "CANopen" protocol. Gaining experience on technical subjects like Dynamic Link Libraries (DLL), Shared memory mapping, combining Borland Delphi/C++ libraries within Microsoft Visual C++. Also work on an entirely different project regarding the development of an internal website. A dynamic website containing all of Interay's components/products. Gained more experience on PHP/MySQL. Working together with a Chinese translator to provide a full English/Chinese experience.

At Interay, I continued working on the project last mentioned above, after finishing the internship period itself.

[1] References available upon request

Personal profile and motivation

Qualities & ambitions

In-depth technical knowledge and interest in a wide range of topics is applicable to me. I always like to view things from different perspectives. It's probably no wonder the same can be applied to the way I spend some of my spare time. Flying. I love to look at the world literally from a birds-eye view. I really enjoy the dynamic environment you're confronted with, while sitting in the cockpit at the controls of an aircraft. That includes the important aspect of tactical decision-making during longer cross-country flights.

Professionally I'm more attracted towards new projects with an inquisitive nature rather than routine jobs or standard processes. I like to see my fascination for technology in the work I do. The desire to solve problems by analyzing every step into detail to get to the source. Produce clear conclusions. I don't mind to work independently, but also have experience with working in teams including guiding them. Presenting the work I do or discussing it with others is an important way for me to get input and gain new insights.

Emphasizing the importance of safety is distinctly to me. For example during preparations in organizing the 2nd Solar Challenge I officially recommended that there should be better regulations on battery management/safety. Eventually, these specific improvements where indeed implemented in the new Challenge rules. To me, discussing any potential problem early on instead of ignoring them is important.

What am I looking for?

To work at a place that challenges me. Where I can fully exercise my knowledge. And maybe even more important, at a place where I can continue to learn new things and meet new people. A company that is truly committed to what it's doing. With a clear vision on what they're trying to accomplish, and where I can fully stand behind and dedicate myself to the product, project or problem I'm working on. A no-nonsense approach at a place that tolerates constructive criticism on important matters.

The possibility to continue growing and the opportunity to work on multiple projects over time, not just a single thing. Versatility and continuing challenges in the work I'm doing is important to me.

I am always looking to *gain* energy from the things I'm doing, including work. I always take care that when I become a domain expert, I don't become trapped in it. I want to keep having a beginner's mind, to always keep looking at things freshly no matter how much knowledge and experience I have on it.