Curriculum Vitae - Igor Schouten

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After graduating Industrial Design Engineering (MSc, Delft), I've gradually shifted towards back to web- and software development and expanded my skills in that field.
I have a strong work ethic, good communicative skills and always try to keep learning by creating great new products together with others.
In my spare time I re-charge by making and listening to music, cycling or driving a motorcycle or trying out new coding tools.

Experience

Product Developer
Techneco BV (Delft, April 2018 – current)
Techneco is a Dutch company specialized in Heat pump technology.
I joined their Product development team and focus mostly on the software for 'remote management' and monitoring aspects of these heat pumps.

Product Developer / Manager R&D
Plugwise BV (Sassenheim, 2016 – April 2018)
Plugwise is specialized in Home automation/ Smart heating solutions based on wireless RF (Zigbee) actuators and sensors.
During my time here, I kept an overview on the different aspects of development (UI and mechanical design, embedded software, Cloud backend, Apps) and keep communicating between teams going.
Additionally, I developed several internal applications for field-monitoring of their energy and heating solutions.

(Lead) Hardware Engineer
Plugwise BV (Sassenheim, 2011 - 2016)
Responsible for writing functional specifications and reviewing/approving technical proposals and deliveries related to hardware products.
Managed development and communication with partners, as well as in-house hardware design, sourcing of production-tooling and acquiring regulatory certifications (i.e. CE, EMC/RTTE/LVD).

Designer functionality (internship)
MMID (Delft, 2010)
Internship as Designer Functionality' at MMID Full-Service Design.

Skills

Concepts
- Scrum/Agile development and design methodology
- Software development / Clean code and design patterns
- (Hardware) prototyping, 3d modelling and printing
- Development of low-energy wireless IoT devices (i.e. zigbee)

Software
- Platforms: Mac OS, Linux, Windows
- Project management: GitLab/GitHub, Jira, Wrike
- Graphical/UI: Figma, Affinity, Adobe CS/XD
- IDEs: IntelliJ, VSCode
- 3D modelling: SolidWorks

Programming languages and tools
- 'Strongest' in: Python, HTML, CSS
- 'Get around' in: Javascript, ReactJS, Bash, SQL, Docker, PHP.

Languages
- Dutch   (native language),
- English   (fluent, speaking, reading, writing)

Certifications
- AWS Certified Solutions Architect (Associate) (March, 2018)
- Driver license (A, B)
- VCA Vol (February, 2019)

Education

2007-2011   Master Integrated Product Design (MSc)
Delft University of Technology

2004-2007   Bachelor Industrial Design Engineering (BSc)
Delft University of Technology

1998-2004   VWO Natuur & Techniek + Economie
Kennemer Lyceum Overveen

Personal life

I love reading about new technology and am always eager to learn and develop new skills.
Hobbies include making (and listening to) music on acoustic guitar or piano, and tinkering with new coding tools.
When it's nice outside I love road-cycling and driving my motorcycle and also practice (Shaolin) Kung-Fu.

Projects

Software development: Pilot monitoring application (2018-2019)

Techneco's heat pumps needed monitoring and remote maintenance. Developed a python/asyncio application for reading/writing ModbusRTU data and store it locally, present it in a JSON based API+React app and synchronize data with a third party data store over websockets.
Keywords: Python, websockets, asyncio, ReactJS, ModbusRTU, Docker, GitlabCI

Software development: Data analysis and monitoring (2016-2018)

Development of Python CLI applications to visualize the performance of our products and their effects heating systems, aimed offer deeper insights into our products' behavior and ultimately result in a higher quality product to the market.
Keywords: Python, matplotlib, numpy, XML, REST

Software development: Component traceability (2017-2018)

Taking role of product owner in the development of Plugwise its infra-structure for flashing, registering and tracking hardware components throughout Plugwise's supply chain.
Developed a GUI application in python to keep track of their packaging operations and deployed this to systems used in production.
Keywords: Python, tkinter, json, REST, OOP

KPN/Accenture (2015-2016) (at Plugwise)

Technical project manager for Plugwise in its collaboration with KPN to add new zigbee products to the SmartLife (Comfort) platform.
Within this project I was responsible for day-to-day communication with the customer and several other development partners, and oversaw the overall hardware development (in-house), as well as electronics and software development (outsourced to partners) to make sure the products would meet their requirements.
Keywords: Project management, systems architecture

Anna thermostat with NLE (2013-2014) (at Plugwise)

Hardware Engineer and project management for the development of Plugwise's smart thermostat 'Anna'. The Anna thermostat was developed together with de '*Nederlandse Energiemaatschappij*' (NLE) and is still available.
Keywords: Hardware design, project management

Graduation project Ndassie Energy Corporation (2011)

Graduation project Industrial Design: Development of a 'Solar Docking Station' to provide lighting to the 'BoP' in off-grid, rural areas in Cameroon.