

# Curriculum Vitae Dolf Andringa, MSc

May 2022

## Personal Information

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| Name                | Dolf ANDRINGA                                      |
| Birthday and -place | 05 October 1980, 's-Hertogenbosch, The Netherlands |
| Nationality         | Dutch  |
| Gender              | Male   |
| Marital status      | Married  |

## Contact information

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## Employment history

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|-----------------------|---|
| <b>2019 - present</b> | <b>Lead IoT Engineer at Colnspect Philippines Inc (dba Therma), Cebu City, Cebu, The Philippines.</b><br><br>For the Cebu office of San Fransisco based company Therma (hellotherma.com) I am the technical lead engineer in charge of the IoT architecture and development. Therma° is combating climate change by building the smart cold chain. My responsibilities include technical supervision of a team of engineers, system architecture, integration of embedded and cloud based systems, firmware development, setting up devops automation and supporting our other teams as needed. Recently, after building up a good team of IoT engineers, I have shifted towards R&D and the development of new products for the company. |
| <b>2017 - 2019</b>    | <b>Consultant at College of Computer Studies at Foundation University, Dumaguete, The Philippines.</b><br><br>I work 2-3 days a week at Foundation University I consult on Software Development and IoT projects where I teach students while they assist me on software development and IoT projects, and advise capstone and thesis projects. Most projects are run from the Nightowl Technology incubator, which I lead and involve a combination of mobbile and backend software development, electronics and 3D printing..   |
| <b>2016 - present</b> | <b>Consultant</b><br><br>I specialize in full-stack software development in Python, Angular and Ionic. I furthermore consult on projects involving electronics and the Internet of Things geospatial and scientific data management, analysis and reporting. As my affinity with marine conservation, science and GIS is very strong, I enjoy applying my skills in this area most, but also derive a lot of satisfaction from purely technological challenges. Although my main software development specialty is full-stack web-development in Python and Angular, I am versatile and have experience in Java, C/C++, R, PHP and other languages.   |
| <b>2016 - present</b> | <b>Partner at East Solar Works</b><br><br>East Solar Works is a solar company that mainly focuses on new applications of solar power. It moved from regular solar power installations to solar water pumping for municipal and rural water supplies. As one of the partners, my main responsibility is implementing ICT solutions, technical support and R&D and optimizing business processes. My previous experience in building IT solutions and as CTO of an IT company come together in this role.   |
| <b>2014 - 2016</b>    | <b>Science Officer at Marine Conservation Philippines</b>   |

|                    |   |
|--------------------|---|
|                    | <p>MCP is a non-profit nature conservation organization, funded by its volunteer program. It supports conservation initiatives by the local government and conservation and peoples' organizations with technical knowledge and trained manpower. My main responsibility was research and monitoring setup and execution, and supervision of interns and volunteers in those activities and coordination with stakeholders. Later on my role shifted more towards techn(olog)ical activities like data management and analysis, GIS and remote sensing activities and IT and spatial data infrastructure management. As part of the scientific monitoring program, I also developed our own data entry (web-)application in AngularJS/Python/PostgreSQL. Since I work as independent consultant, MCP is still one of my clients.</p>  |
| <b>2013 - 2014</b> | <p><b>Lecciones Amazonicas project coordinator at Amazon Fund, Bolivia</b></p> <p>Coordination of an environmental education project in two consecutive secondary school years, in the Bolivian Amazon. Responsibilities included design and layout (in LaTeX) of educational material for a field practical and ecology course for secondary schools, and the coordination of the project with schools, teachers, directors, the municipality and local indigenous guides. The educational material was published in a web-portal that I implemented in Drupal.</p>  |
| <b>2010 - 2013</b> | <p><b>Chief Technical Officer at Proigia</b></p> <p>As a continuation of my work at Elcyon, I co-founded Proigia. It grew into a company with about 7 employees. Proigia still develops a web-based business intelligence platform and services for primary healthcare providers based on their own medical information. The application consists of data extraction, transport, anonymisation, encryption and reporting layers implemented in Python, Java, and PostgreSQL. The reporting front-end for clients was a web-application written in Turbogears and a web-mapping application implemented in OpenLayers/GeoExt/Geoserver/PostGIS. Data extraction, abstraction and interpretation were enormous challenges as data had to be extracted from 7 different IT systems from different companies, and were often very large and badly documented and had grown organically over many years. As CTO I was in charge of the technical strategy and architecture of the company, software development and implementation and IT infrastructure in general.</p> |
| <b>2004 - 2013</b> | <p><b>Independent contractor in Elcyon.</b></p> <p>Starting out as a system administrator for various companies, work evolved into website and web-application development, and then on to software developer. The software development became the majority of work and after developing a proof-of-concept web-based GIS, culminated in the founding of Proigia. The last three years all work went into Proigia, with Elcyon taking a background position.</p>  |
| <b>2001 - 2004</b> | <p><b>Various jobs at Wageningen University</b></p> <p>Including a system administrator at the head office, tutoring a course, development of a website for the Biology study, and development of information material for the health and safety department.</p>  |

## Education

|             |  |
|-------------|--|
| 2021        | <b>The Things Certified Advanced</b> and <b>The Things Certified Network Management</b> and <b>The Things Certified Security</b> at The Things Industries, The Netherlands |
| 2014        | <b>SSI Dive Control Specialist</b> at Island Divers, Cambodia.   |
| 1999 - 2008 | <b>MSc in Biology</b> at Wageningen University, specialisation Tropical ecology and a minor in Geographic Information Science  |
| 1993 - 1999 | Secondary school "Stedelijk Gymnasium Apeldoorn"   |

## Other skills and qualifications

Only a selection is listed, starting with the skills/techniques I am most comfortable with.

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|--|---|
| Computers general:                                 | Linux, Windows, Open Office, Microsoft Office, Apple  |
| Data science and business intelligence             | R, SPSS, Scipy, Bibtex, Latex, Jupyter, Apache Superset   |
| GIS:   | PostGIS, QGIS, Grass GIS, OpenLayers, Leaflet, GeoExt, Geoserver, GDAL, Geonetwork Open Source, ArcGIS            |
| Programming and related languages:                 | Python, Embedded C/C++, Typescript, Javascript, PHP, Java   |
| Dev-ops tools/services:                            | Github/Lab/etc, Kubernetes, TravisCI, Ansible, Jenkins, Vagrant, AWS EC2, Heroku, Nginx, Apache, OpenVPN          |
| Databases:   | PostgreSQL, PostGIS, MongoDB, MySQL, SQLite, Redis  |
| Electronics, Embedded development and Prototyping: | STM32, Atmel and ESP8266 embedded device programming, OpenWRT, Armbian, Eagle, Fusion360, PCB Design, 3D printing |
| Web development tools/libraries:                   | Flask, Angular, Ionic, React, Drupal, MQTT, RabbitMQ, Wordpress, Pylons   |
| Other:   | Drivers license, SSI Dive Control Specialist (Assistant Instructor) (500+ dives)                                  |

## Languages

- Dutch: Mother tongue
- English: Fluent
- Spanish: Professional working knowledge
- French: Good working knowledge
- German: Good conversation abilities
- Portuguese: Basic conversation

## Hobbies

- (Micro) Electronics and hacking, Former member of the Nightowl arts and technology incubator and hacker space and former member of the Nurdspace hacker space.
- Motorcycles, Scuba diving, Cycle racing
- Traveling, including many tropical countries in Asia, Latin America and Africa, some of which for longer periods doing research or (volunteer) work.
- Hiking, cycling, diving