Curriculum Vitae Dolf Andringa, MSc

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Personal information

Name	Dolf ANDRINGA
Birthday and -place	5 October 1980, 's Hertogenbosch, The Netherlands
Nationality	Dutch
Gender	Male
Marital status	Married

Contact information

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Employment History

2017 - present	**Consultant at the College of Computer Studies at Foundation University, Dumaguete**
	I work two days a week at Foundation University where I co-founded a hacker-/makerspace where I teach students software development, electronics, 3D printing and other subjects. Most of the activities of students is extra-curricular, but I also supervise some thesis subjects. The college furthermore frequently asks my advise regarding it's research and education strategy, and I spearhead environmentally or socially relevant projects that implement technological solutions.
2016 - present	**Independent technology consultant**
	I specialize in full-stack software development in python. I furthermore consult on geo-spatial 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, I am versatile and have experience in Java, C, R and other languages.
2016 - present	**Partner in East Solar Works**
	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.
2014 - 2016	**Science Officer at Marine Conservation Philippines**
	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.
2013 - 2014	**Lecciones Amazonicas project coordinator at Amazon Fund, Bolivia**
	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.
2009 - 2013	**Chief Technical Officer at Proigia**
	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 is was in charge of the technical strategy and architecture of the company, software development and implementation and IT infrastructure in general.
2004 - 2013	**Independent contractor in Elcyon.**
	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.
2001 - 2004	**Various jobs at Wageningen University**
	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.

Education

2014	**SSI Dive Control Specialist at Island Divers, Cambodia.**
	A Dive Control Specialist is an assistant dive instructor for Scuba Schools International which qualifies me to lead groups of qualified divers, and teach part of the open water course for new divers.
1999 - 2008	**MSc in Biology at Wageningen University, specialisation Tropical ecology**
	Major MSc thesis: Mangroves: feeding ground or shelter? The thesis involved field experiments in Sofala Bay, Mozambique to prove whether mangrove forests are important for marine life as a shelter for predators or as a feeding ground due to either higher marine or terrestrial food availability. This research was done completely independent of local organisations and only the help of my wife, and several fisherman that I employed.
	Internship: Research on and the conservation of the endemic Utila Spinytailed Iguana (Ctenosaura bakeri) at the "Iguana Reasearch and Breeding Center" on the mangrove island of Utila, Honduras, Central America.
	Minor MSc thesis: Using open standards in 3D visualisation of geo-data: Using GML, X3D and XML in GIS. This thesis concerned the development of a proof of concept for a 3D environment which could be used on the internet to visualise geo-information.
	Various committees and board membership of study association "BVW Biologica"
	Twice the organisation of mini cultural festival "Droeffeest" for several hundred to 1000 visitors.
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.

Computers general:	Linux, Windows, Open Office, Microsoft Office, Apple
Data analysis and scientific writing	R, SPSS, Scipy, Bibtex, Latex, Stella, Canoco
GIS:	PostGIS, QGIS, Grass GIS, OpenLayers, GeoExt, Geoserver, GDAL, Geonetwork Open Source, ArcGIS
Programming and related languages:	Python, PHP, Java, C, Bash, HTML
Web development tools/libraries:	Flask, AngularJS, SQLAlchemy, WebPy, RabbitMQ, Drupal, Wordpress, Pylons, JQuery, ExtJS
Dev-ops tools/services:	Github, Jenkins, Ansible, Vagrant, AWS EC2/S3, Heroku, Apache, Lighttpd, OpenVPN, IPTables
Databases:	PostgreSQL, PostGIS, MySQL, SQLite, Redis
Ecological fieldwork:	Mark-recapture, belt transects, roving diver, dung count, fieldwork setup, execution and supervision, reef check surveys.
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, member of the Nightowl technology incubator and hacker space and former member of the Nurdspace hacker space.
- 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.
- Hill walking, birding and hiking