

# Anouk Visser

CTO at Dutch UAS where I supervise and support the technical team. We develop computer vision and artificial intelligence algorithms that automatically analyse aerial imagery to provide landowners with insight and help them make their piece of land a better place. In addition to this, I am working towards my master's degree in Artificial Intelligence at the University of Amsterdam.

## Education

**University of Amsterdam, Amsterdam, The Netherlands**

- Master of Science in Artificial Intelligence, 2013 - 2016 (expected)
- Bachelor of Science in Artificial Intelligence, 2010 - 2013
- Member of the Education Committee (2010 - 2011)*

## Work Experience

**Chief Technology Officer and Board Member, Dutch UAS Foundation, January 2014 - present**

- Composed the requirements for the pilot focussed at increasing the usability of a UAV designed to help rangers in South Africa stop the poaching of rhinos.
- Managed the project's budget, planning and the team of four engineers during the development of the pilot products: a fixed-wing UAV, a ground station with custom made software and antennas and power supply for the complete system.
- Contributed to the development of the Dutch UAS Ranger Interface (DURI). Implemented features to control the aircraft (takeoff, circle and follow path), review a mission and set up an offline map server with custom made maps of game reserves. Technologies used: Django, Javascript, Paparazzi UAV, Ivy Software bus, TileMill, PostgreSQL and Nginx.
- Performed the pilot in South Africa, verifying the usability of the final product.

**Computer Vision Engineer, Dutch UAS Team, May 2014 - January 2014**

- Implemented an object detection method for the unmanned aerial surveillance system designed to help rangers in South-Africa stop the poaching of rhinos.
- The object detection method detects over 80% of all objects in aerial imagery while reducing the number of pixels that need manual evaluation over 75%.

**Teacher, RISE OF //CODE, July 2014 - November 2014**

- Taught workshops on HTML & CSS and soldering to groups of ten children between the ages of 6 and 12.

**Software Developer, CloseAlert, Amsterdam, November 2012 - April 2013**

- Designed the new user-interface for the environment where companies can see analyses of customer-generated feedback.
- Made first steps in redesigning the company's APIs and back end in Python.

## Scholarships

**Google Anita Borg Memorial Scholarship, June 2015**

- Selected as a 2015 scholar for having demonstrated outstanding academic achievement, leadership and community involvement.

## Volunteer Experience

**Organizer, Girl Geek Dinner Netherlands, Amsterdam, June 2014 - present**

- Helped organize three Girl Geek Dinners, my main responsibility is finding sponsors and partners for upcoming dinners.

**Coach, Rails Girls, throughout the Netherlands, June 2014 - present**

- Helped small groups of women build a web application using Ruby on Rails.
- Provided a workshop on the fundamentals of programming and the history of computing.

**Coach, VHTO DigiVita Event, Amsterdam, October 2014 and March 2015**

- Guided six girls between the ages of 10 and 12 through several activities such as programming a robot and 3D printing as well as a more comprehensive workshop on creating a webpage using HTML and CSS.

## Projects

### **Gaze Correction for Videoconferencing, January 2014**

- Implemented modules for a gaze correction system such as a module for head pose classification and a blending module using seam-carving to find an optimal seam.
- A video of the results of this project can be found on [youtube](#).

### **The Book Club: a website for discussing books with other users, October 2012**

- Created [thebookclub.nl](http://thebookclub.nl) together with one other student using Codeigniter.
- Implemented the back end of the website. This involved setting up the database, designing the database and communicating with it.