

Bram Stoeller

Curriculum Vitae



**I am available for AI and IT projects via Brain Builders B.V.
I'm not looking for a permanent job.**

Personal

Full name:	Bram Stoeller	Address:	Zwaluwstraat 170
Company:	Brain Builders B.V.		6541 NP Nijmegen
Date of birth:	January 30th, 1985		The Netherlands
Nationality:	Dutch	Phone:	+31 (0)6 4224 7399
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		Website:	https://brain.builders

Specialties

I am a researcher and developer in **artificial intelligence** with a strong bias towards computer vision. I specialise in state of the art algorithms within **computer vision**, **machine learning**, **pattern recognition**, etc. In addition to this technical education I attended and assisted a number of courses in **communication** and **personal leadership**. I have experience in agile development as team member and later as **scrum master**. Although somewhat outdated, you will find more projects, reports and demonstration videos on: www.stoeller.nl/projects. I'm currently running two companies: Brain Builders (brain.builders) and Kubiko (kubiko.nl).

Employment

04/'17 - now	AI Engineer and Consultant Artificial Intelligence in practical applications and embedded systems. Our mission is to add intelligence to existing devices and applications [C++, Caffe, Python] <i>Brain Builders, plug 'n play intelligence, Nijmegen.</i>
12/'13 - now	Software and Hardware Engineer / Managing Director Repelling birds from offshore installations using deep nets to classify objects and a laser projector to scare them [C++, Caffe, Python] <i>Kubiko, scarecrow of the sea, Nijmegen.</i>
01/'15 - 10/'15	Software Engineer Collision detection in 3D metal bending simulations [C++, Tcl/Tk, Bullet] <i>Radan, CAD CAM software solutions for the sheet metal bending industry, Ede.</i>
07/'14 - 12/'14	DevOps Engineer An automated provisioning framework to manage about 800 (virtual) servers while ensuring (database) integrity. [Python, Django] <i>Byte, Cluster and Magento hosting for professionals, Amsterdam.</i>
09/'11 - 07/'14	Vision Software Engineer People tracking using ceiling-mounted stereo cameras. [C++, Python, Matlab] <i>Eagle Vision Systems, Naarden.</i>
06/'07 - 01/'10	Internships Several computer vision projects (See Projects section). [C++, Matlab, Python] <i>Triple IT, Interfacing new media, Alkmaar.</i>

Education

- 09/'09 - 06/'12 **MSc Artificial Intelligence, completed**
Specialisation: Intelligent Systems
UvA, University of Amsterdam.
- 09/'04 - 06/'08 **BSc Artificial Intelligence, completed.**
UvA, University of Amsterdam.
- 09/'98 - 06/'04 **Pre-university Secondary Education (VWO), completed.**
Profiles: "Nature & Science" and "Nature & Health"
Montessori College, Nijmegen.

Projects and Freelance Jobs

- 05/'16 - 06/'17 **Color (density) measurement in offset printing**
An automated measurement and control system to get color alignment (register) and the amount of ink (density) right, using a camera based sensor.
Q.I. Press Controls, Measurement and control systems for offset printing presses.
- 05/'16 - 06/'17 **Stitching six camera images to a single spherical image**
Each 360 camera needs color calibration and distortion correction, but the biggest issue to tackle is the parallax effect; how to stitch frames seamlessly with objects at several distances.
Sphericam, The VR 360 video camera, Haren/Haarlem/Ljubljana/Prague.
- 09/'11 - 06/'12 **Colour based people tracking using non-overlapping stereo cameras**
Master thesis; Investigating which appearance model can be used to recognise people using ceiling-mounted stereo cameras.
dr. ir. Leo Dorst and dr. Gwenn Englebienne, UvA; in co-operation with Wojtek Zajdel, PhD, Eagle Vision Systems.
- 01/'10 **Reconstructing a 3D structure from unknown viewpoints**
Create 3D model from several pictures of an object at unknown viewpoints using uncalibrated cameras.
dr. Jan-Mark Geusebroek, UvA; in co-operation with Triple IT.
- 06/'07 **Real-time billboard substitution in soccer matches**
Replacing the billboards at the borders of a soccer field in a live video stream.
dr. ir. Rein van den Boomgaard, UvA; in co-operation with Triple IT.

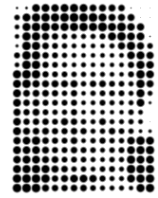
Extracurricular Courses

- 05/'09 - 06/'09 **Personal Leadership (9 days)**
Amethyst Developing People, Amersfoort.
- 06/'08 **Communication and Social Behavioural Styles (3 days)**
Amethyst Developing People, Amersfoort.

Languages

	Writing	Reading	Speaking
Dutch	native	native	native
English	good	excellent	good

Appendix



Programming Languages

This is a selection of relevant programming languages. Please contact me if you have questions about other programming languages, platforms or APIs.

C++	excellent
Python	excellent
Matlab	excellent

BSc/MSc Artificial Intelligence Projects

Date	Title
05/'11	Master Thesis - Model based people tracking using ceiling-mounted stereo cameras
05/'11	Visual Analytics - NS Data Visualisation
06/'10	Profile Project AI-IS - Layered Interactive Sokoban Assistant
05/'10	How can Qualitative Reasoning be used to model the phase transitions of matter?
01/'10	Reconstructing a 3D Structure from Unknown Viewpoints using Uncalibrated Cameras
06/'08	Bachelor Thesis - Artificial Intelligent Go Annotator
06/'07	Real-time Billboard Substitution in a Video Stream of a Soccer Match
01/'07	Learning and Decision making - Data mining Police database
09/'06	Background Estimation
09/'06	Sophomore Project - Quakevolution
06/'05	Searching, Steering and Moving - Making a plotter of the UMI-RTX robot