



# Arjen Bos

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03 Jan 1991

## Personal profile

Proactive \* Analytic \* Pragmatic \* Direct

## Education

> **Biomedical Engineering (MSc)** *sep 2013 – may 2016*  
Eindhoven University of Technology (TU/e) –  
*Graduated on:* The development of a novel biosensing  
technique based on tethered particle motion.

> **Applied Physics (BSc)** *sep 2009 – july 2013*  
TU/e – *Graduated on:* Determination of magnetic  
properties of superparamagnetic microspheres for  
biosensing.

> **Erasmus Exchange** *aug 2011 – feb 2012*  
Universitat de Barcelona (UB) – Study molecular  
biology, biochemistry and genetics.

> **Atheneum N&T + N&G** *sep 2003 – may 2009*  
Pleincollege Bisschop Bekkers, Eindhoven

## Associations & Activities

> **Advisory board ESWZV Nayade** *sep 2014 – mar 2016*  
Supervision and guidance of the board about (a.o.)  
policy, communication and organization.

> **Board ESWZV Nayade** *sep 2012 – sep 2013*  
Leading swim and waterpolo association ~200  
members including teams and committees, planning  
of the game season, implementing policy changes,  
direction of activities.

> **Committees ESWZV Nayade** *mar 2012 – sep 2014*  
Organization of social and sport activities.

> **Founder Dispuut Hawking** *mar 2010 – may 2016*  
Foundation and committees at Fysisch dispuut  
Hawking.

> **Committees Van der Waals** *nov 2009 – dec 2013*  
Several (social) committees SVTN “J.D. van der Waals”.

## Publications

> *july 2013*

Accurate quantification of magnetic particle properties  
by intra-pair magnetophoresis for nanobiotechnology  
— 3rd author, *Appl. Phys. Lett.* vol. 103, july 2013

## Certified courses

> *feb 2017*

Lean Course (Basics & Idea2Market)

> *jan 2014*

Safe Microbiologic Techniques (SMT) + HepB

> *mar 2012 – mar 2014*

Bedrijfshulpverlener (BHV) incl. First Aid

## Work experience

> **Process Development Engineer** *sep 2016 – sep 2017*  
Philips Handheld Diagnostics (HHDx) – **Development  
product process** by setting up experiments, data  
analysis, programming (MATLAB). **Troubleshooting** by  
recognizing problems/bottlenecks, exploring, planning  
and solving them.

> **Internship R&D** *jan 2016 – may 2016*  
Philips HHDx – *Onderwerp:* Quantification of antibody  
affinities of the BNP immunoassay.

> **Central Introduction Committee** *dec 2013 – dec 2014*  
TU/e – Organization and direction of entire student  
introduction week, **planning**, recruiting sponsors,  
merchandise, direct companies & sports market,  
leading committees & volunteers.

> **Student Consultant** *mar 2012 – oct 2013*  
Fysicawinkel (TU/e) – Conduct and report  
measurements regarding particulates and traffic noise  
for small to medium companies.

> **Pre University College** *jan 2011 – july 2011*  
“Keurig Kiezen” TU/e – Give physics workshops (liquid  
N<sub>2</sub>, thermocouple) to high school students.

## Laboratory skills

Immunoassays, protein immobilization/conjugation,  
protein purification, several chromatography, UV/vis  
spectroscopy, gel electrophoresis, PCR, recombinant  
DNA, genetic modifications, organic synthesis.

## Computer skills

Experienced with (from most to least) **MATLAB**,  
Microsoft **Excel** & Word, Minitab, Git, Windows 7-10,  
various Linux, Adobe Illustrator, webdesign markup  
languages.

## Languages

*Professional proficiency:* Dutch, English  
*Limited proficiency:* Spanish

## Interests

*Sports:* Fitness, boxing, swimming  
*Music:* Playing piano  
*Hobbies:* Repairing/building race bikes  
Working with computers/websites  
*Other:* Rubik's Cube solved