



Arjen Bos

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03 Jan 1991

Personal profile

Proactive * Analytic * Pragmatic * Direct

Education

> Biomedical Engineering (MSc) *sep 2013 – mei 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 – juli 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 – mei 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 – mei 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*

Bedrijfsbushulpverlener (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 N₂, thermocouple) to high school students.

Laboratory skills

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

Computer skills

Experienced with (from most to least) **MATLAB**, Microsoft **Excel**, webdesign (HTML5, CSS3, php, JavaScript), SQL, Minitab, Git, various Linux & Adobe Illustrator.

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