

# Cesar Vandeveldde, PhD

## design technologist



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An interactive overview of my work can be found on my website: [www.cesarvandeveldde.com](http://www.cesarvandeveldde.com)

My name is Cesar and I am a design technologist with an unstoppable desire to create. My background is in industrial design, though I am comfortable in many different mediums for creative expression, such as software, hardware, interaction and visual design. I have spent the past few years working towards a doctorate degree, a period during which I created and investigated novel ways of designing DIY social robots. Having recently finished my PhD, I look forward to applying my skillset in a context that is closer to industry and to the users. Technology continues to have a tremendous impact on all aspects of society, and I want to help create the next big thing. I am a quick learner and I thrive in complex, multidisciplinary environments. I am flexible and I feel comfortable in both designer and engineer mindsets, allowing me to bridge the gap between these worlds. I don't shy away from practical work either; I have a strong affinity for tinkering and making, and I firmly believe in the value of a hands-on, iterative prototyping approach. Curious for more? Take a look at my portfolio ([www.cesarvandeveldde.com](http://www.cesarvandeveldde.com)) and let the work speak for itself.

## Education

### Ghent University 2012 — 2017

#### Ph.D. — Industrial Design Engineering Technology

After graduating, I was offered the chance to pursue a doctorate degree at Ghent University. A unique chance to broaden and deepen my skill set by performing academic research in an international, interdisciplinary environment. Obtaining my PhD was a challenging, yet deeply rewarding experience.

- Dissertation: Study on the Design of DIY Social Robots

### Howest 2008 — 2012

#### M.S. — Industrial Engineering: Industrial Design

As an industrial design engineer, I could combine my technical knack with my passion for creativity, arts and design. During this hands-on educational program, I discovered my love for designing electronic and mechatronic products.

- Master's thesis: Ono, a Huggable Robot
- Graduated magna cum laude

## Work Experience

### Self-employed 2018 — present

#### Freelancer — Technology Design Services

After years of working in a research environment, I felt it was time for a new challenge. I decided to start my own business, helping companies develop the interactive products of tomorrow. My services include software development, electronics design, and hardware prototyping.

### Ghent University 2017

#### Researcher Smart Products for Mobile Wellbeing

- Tech-transfer project with local industry focused on IoT technology.
- Primary technology expert within the project.
- Responsible for creating working prototypes of smart product concepts.

### Ghent University 2012 — 2017

#### Ph.D. — Industrial Design Engineering Technology

- Created an open source toolkit for building custom social robots with facial expressions.
- Developed software, electronics and mechanical hardware for social robots.
- Organized 3 workshops at international conferences where novices created fully-working social robots over the course of one day.
- Authored 3 publications in scientific journals and 10 papers presented at international conferences.
- Teaching assistant for courses "mechatronic product design", "constructive design", "design and workspace".
- Gave guest lectures on specialist subjects: "additive manufacturing", "social robotics", "interaction design", "electronics prototyping".
- Supervised 7 master's theses.

### Delta Light summer 2011

#### Internship R&D department

- Designed and prototyped outdoor lighting products.

### Betafence summer 2010 summer 2009

#### Student job R&D department

- Created fully-parametric CAD models of fencing products. Reverse engineered and created production drawings of legacy products.

## Competences



### digital manufacturing

I am proficient in operating digital manufacturing machines and I know how to design for each specific technique.

3D-printing   
Laser-cutting   
CNC machining 

### electronics prototyping

I can build working electronics prototypes and one-off designs using off-the-shelf components.

SMD Soldering   
Debugging   
PCB rework 




### pcb design

I can turn a prototype circuit into a compact printed circuit board designs and I have experience with PCB manufacture.

Eagle CAD   
Digital circuits   
Analog circuits 





### concept development

I have experience with ideation, conceptual design and product innovation techniques.

Communicative sketching   
Technical creativity   
Co-creation 


### prototype fabrication

I am familiar with a wide range of manual prototyping techniques.

Moulding   
Finishing   
Woodworking   
Metalworking 

### software development

I am a skilled programmer with experience in a wide range of programming languages.

C/C++   
Python   
HTML/CSS   
Javascript 


### aesthetics design

I have an eye for aesthetics and visual design. I have experience with different mediums, including print, digital, and product design.

Adobe suite   
Photography 




### mechanical engineering

I am a trained engineer. I have a broad background in engineering principles, tools, and techniques.

Solidworks   
Rhinceros   
Siemens NX 

### interaction design

I am specialized in designing interactive products, a discipline that combines aspects of the physical and the digital world.

User-centered design   
Usability/UX   
Interface design 

## ...and more








### languages

Dutch   
English   
French   
German 

### miscellaneous skills

Driver's license   
Welding   
Teaching 

### personality traits

Creative and open-minded   
Problem solver   
Quick and eager learner   
Meticulous   
Flexible   
Stress-resistant   
Independent 

## Accolades

- 2016 Urban Crafts — finalist
- 2015 FEA Research Symposium — poster laureate
- 2013 International Conference on Social Robotics — best poster award
- 2013 Maker Faire Rome — Maker of Merit award
- 2012 ProtoPitch — winner "Prix de l'Innovation Transfrontalière"
- 2012 Dag van de Ingenieur — finalist

## Personal life

In my free time, I am an amateur photographer. I enjoy swimming as a physical outlet. I like tinkering with electronics in my spare time and I help out as volunteer at local Repair Café events. I am also an avid science-fiction fan and I love going to stand-up comedy shows for a fun night out.