



# NATHALIE BORGOGNON

INSTRUCTIONAL TECHNOLOGIST | UX  
RESEARCHER | SOFTWARE ENGINEER

## ABOUT

Multitalented specialist passionate about the digitalization of processes and human activities through professional projects since 1997

- Holder of a BSc and a pre-MSc in Computer Sciences and a MSc in Technological Education
- Convinced that collective intelligence can lead to the success of multidisciplinary projects with stakeholders from different fields
- Curious to continuously improve methods and tools useful to understand human being and his working environment for computational artefacts and instructional design

## WORK EXPERIENCE

### Quality and Project Manager ∴ Techwan | An Everbridge Company

<https://www.techwan.com/>  
January 2020 – February 2021

- Change management in fields of cross-functional internal communication, software engineering best practices and test automation
- Organisational facilitation and introduction to some Lean and Agile practices

#### Highlights

Design thinking workshop to develop a common continuous software quality action plan

### Training Coordinator ∴ Rollomatic

<http://www.rollomatic.ch/>  
March 2019 – November 2019

- Co-writing of the macro pedagogical scenarios of all customer training courses
- Release of six new training catalogs, for each corporate trade skill at Hannover Messe 2019

#### Highlights

Design thinking workshop to develop a common training charter for the training catalogs

### Research and Teaching Student Assistant ∴ University of Geneva

<https://tecfa.unige.ch/fr/>  
October 2016 – January 2019 | Fixed-term contract

- Teaching and assistance in Human-Computer Interaction & Ergonomics during three semesters
- Development of a tablet game for learning sounds in Unity 3D-C#

#### Highlights

Coaching students in persona writing, user recruitment, storytelling interviews, user testing

### Software engineer ∴ OXAND

<https://www.oxand.com/oxand-simeo/>  
April 2010 – June 2012

- Development of risk management software in JAVA-Eclipse RCP-MySQL/EclipseLink/XML

### Research and Teaching Student Assistant ∴ University of Fribourg

<https://www3.unifr.ch/inf/en/>  
January 2008 – July 2009 | Fixed-term contract

- Teaching and assistance for two semester courses: Software Engineering & Robotics Project
- Instructional design for two courses: Robotics Project & Robotics Discovery Workshop

#### Highlights

Proposal and implementation of a programming training course with robots e-puck (EPFL)

### Software engineer ∴ EPFL

<https://archiveweb.epfl.ch/lcro.epfl.ch/index.html%3Fp=1145.html>  
May 2006 – February 2007 | Fixed-term contract

- Development of a robot controller simulator in C# with Corba communications

#### Highlights

European research project PICO participation in computer aided surgery field

### Software developer ∴ Unicile | Acquired by IBM

<https://www.linkedin.com/company/unicible/>  
February 2005 – February 2006 | Fixed-term contract

- Development of a "CRM Mobility" prototype in J2ME on PDA with Web Services

### Software developer ∴ Nestle

<https://www.nestle.com/>  
June 2003 – December 2004 | Fixed-term contract

- Maintenance of distributed ASP-Oracle/SQL Server & Access applications

## LANGUAGES

French - C2

Native

German - B2

Professional working proficiency

English - B1

Professional working proficiency

## CONTACT

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## SKILLS

### Software engineering

4 - Specialist

Java, C#, C++, VBS

Unity 3D

Ant, Makefile

JavaScript ES6, HTML5, CSS

Ionic

XML, SQL, Oracle, MS SQL Server, MySQL

Web Services, Corba

TDD, Unit-functional-E2E automation tests

GOF Design Patterns

GIT, SVN, VSS

### Teaching

4 - Specialist

Learning outcomes

Learning & teaching activities

Feedbacks & assessments

Individual & group training, workshops

### Project Management

3 - Skilled

Project follow-up

Agile processes and methods

Azure DevOps Kaban board, Jira

### User experience research (UX)

2 - Average | 3 - Skilled

Design Thinking

Tests and research methods

Interaction design

Axure RP

## EDUCATION

2020  
2015

### University of Geneva

🎓 Master of Science in Learning and Teaching Technologies

Faculty of Psychology and Educational Sciences | Blended-learning education

Courses / Highlights

**Thesis:** User-centered interactive educational devices development

Development of e-learning modules and education game application

User-centered design, IHM Ergonomics, Low/high fidelity prototypes

Qualitative and quantitative research methods

2009  
2007

### University of Fribourg

🎓 Pre-Master of Science in Computer Science

Department of Informatics (DIUF)

Courses / Highlights

60 ECTS gateway between UAS and University

2005  
2000

### School of Management and Engineering Vaud (HEIG-VD)

🎓 Bachelor of Science in Software Engineering

Computer Science and Engineering | Evening education

Courses / Highlights

**Thesis:** Mobile application for bank advisors client interviews

**SETEVIA 2005 school year Award** for merit, hard work & determination

## CERTIFICATIONS

(expected)  
2022  
2020

### Schule für Gestaltung Bern/Biel (School of Visual Arts)

🎓 Certification

Graphic design - Professional Media Publisher

Courses / Highlights

Typography, Colors, Web/Print, InDesign/Illustrator/Photoshop/XD

Present  
2014

### Federal Office of Sport

🎓 Certification

J+S Sports instructor for youth and kids

## VOLUNTEER

### J+S ice hockey instructor ∴ HC Université Neuchâtel

October 2017 – August 2019

- Introduce children aged 4 to 8 to ice hockey

### Trainer ∴ At3flo | FabLab Neuch

August 2014 – Present

- Digital manufacturing training and participation in external events

#### Highlights

Co-edition of an open e-book: Laser cutting in education