

Laura D'Anna

Human Factors Engineer and Manager

Location

Culver City, CA

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EXPERIENCE

Debiotech

Lausanne, Switzerland

Human Factors Manager

Sep 2017 — Nov 2019

- Lead the human factors department and defined the usability process across all projects.
- Implemented uniform workflows and documentation guidelines (following IEC 62366).
- Managed a team of engineers and graphical designers.

Human Factors Project Manager

Jan 2017 — Sep 2017

- Responsible for the usability process for a specific medical device.
- Planned and conducted usability evaluations using quantitative and qualitative research methods (e.g. formative tests), to inform targeted changes to hardware and software.
- Collaborated with cross-functional teams to design hardware mockups and GUIs.

Human Factors Engineer

Jan 2016 — Jan 2017

- Generated documentation: user needs and specifications, market requirements, risk analysis (ISO 14971), work/task analysis, potential use error and use scenarios (cognitive engineering).
- Planned and conducted interviews with health care professionals and patients.
- Created technical illustrative figures, conceptual figures and video user guides.

Blink Technologies

Lausanne, Switzerland

Co-Founder, Product Design

Sep 2014 — Sep 2015

- Co-founded a consumer electronics startup building biometric-based user interfaces.
- Conducted surveys to assess product-market fit and users' reactions to our prototypes.

Geneva University Hospitals (HUG)

Geneva, Switzerland

Research intern (Master thesis)

Feb 2015 — Jul 2015

- Created scientific experiments to test sound localization in children with cochlear implants.
- Developed custom software with a participant-facing graphical user interface (Matlab).

Lausanne University Hospital (CHUV)

Lausanne, Switzerland

Research intern

Jul 2014 — Dec 2014

- Used biometric data (motion capture and muscle recordings) to analyze the impact of knee osteoarthritis and specialized insoles on locomotion (VICON).
- Developed custom data collection, analysis, and visualization tools (Matlab).

Riken Institute

Tokyo, Japan

Engineering intern

Jul 2013 — Sep 2013

- Developed internal web apps for publication management (HTML/CSS, Javascript).
- Designed figures and diagrams used in high impact scientific publications (Illustrator).

EDUCATION

Master's Degree in Biomedical Engineering

Lausanne, Switzerland

Swiss Federal Institute of Technology (EPFL)

2013 — 2015

Specialization in biomechanics (motion analysis, biomechanics, physiological measurements).

Minor in Management of Technologies and Entrepreneurship.

Bachelor's Degree in Life Sciences And Technology

Lausanne, Switzerland

Swiss Federal Institute of Technology (EPFL)

2010 — 2013

LANGUAGES AND SKILLS

French: native

English: full professional proficiency

Italian: limited proficiency

- Extensive experience in human factors engineering, including mixed methods and cognitive engineering, and user interview techniques
- Object-oriented and scientific programming (C++ and Matlab)
- Biomedical signal acquisition and analysis (EMG, motion capture, EEG, etc.)
- Data analysis (algebra, signal processing, statistics)
- Scientific research and study design
- Project management and team management

EXTRACURRICULAR ACTIVITIES

- **Ballet and Jazz Dancing**
- **Student associations and volunteering:** EPFL coaching team, EPFL SV travel team, Nyon Gymnasium's Student Committee