

JEFFREY BREUGELMANS, PHD

UI DESIGN & UX RESEARCH

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LOS ANGELES, CA.
VISIT MY LINKEDIN



SUMMARY

As a user advocate with a background in Human-Technology Interaction, I view technology as a mediator and user appreciation as the key to success. By promoting innovation through sensible design, I strive to empower individuals and to elevate the outcomes of our everyday interactions. I look forward to advancing my career among a team of like-minded professionals.

EXPERIENCE

Developer Hardware, Software & iOS (NDA) Picotek INC., Boston, MA

- gained industry experience in the design and development of IoT & M2M solutions
- learned to build native iOS applications for mobile access to provided services (in Xcode & Swift)
- building consumer and enterprise products (i.e. personal handheld vs. fleet management tool)
- working remotely among an international development team based on the US and Europe

PhD Industrial Engineering Northeastern University, Boston, MA

Dissertation - "Designing an Enabling Computer Interface for Physical Rehabilitation Purposes"

- created and evaluated a novel User Experience Scale (UXS) & Adaptive Interface Design (AID)
- applied user-centered design practices involving people with various levels of physical disability

Research Assistantship (10 semesters) - Intelligent Human-Machine Systems Laboratory

- developed several biosensor-based HTI systems (e.g., UI based on physiological/cognitive state)
- published research findings & co-wrote NSF & NIH grants, including a career grant worth \$400k

Teaching Assistantship (7 semesters of valuable mentoring experience) - School of Engineering

Visiting Scholar (Summer '11; driving simulator study) - Wuhan University of Technology, CHN

MSc Human-Technology Interaction Eindhoven University of Technology, NLD

Thesis - "Antecedents of System Trust: the Influence of Competence and Shared Values"

BSc Electrical Engineering Avans University of Applied Sciences, NLD

Internship & Thesis - Royal Netherlands Air Force - Assessment of aircraft maintenance protocols

HONORS & ACHIEVEMENTS

- Published research at conferences in Boston, Los Angeles, San Francisco, and Wuhan (CHN)
- Work covered by the Boston Globe & Rheumatologist magazine; Endorsed by Arthritis Foundation
- NEU Research Innovation and Scholarship Expo (RISE:2012) - "Excellence in Research" Award
- Research showcased in NEU's Empower Campaign aimed at raising \$1B in funding by 2017
- NEU Dissertation Completion Fellowship; Nominated for Outstanding TA Award (Spring '12)
- Honorable mention at Products & Technologies that Change People's Lives (Boston, 2011)

PROFILE

Dutch native & fluent in English

creative problem solver

visual & critical thinker

craftsman & experimenter

aesthete & user advocate

patient teacher & avid learner

SKILLS

user-centered design

wireframing, 3D printing & functional prototyping

CAD design for physical & virtual applications

hardware, software & mobile development

building eye tracking & motion capture systems

design of experiments

conducting quantitative & qualitative research

statistical A/B testing

clearly presenting & documenting outcomes

TOOLS

Adobe Creative Suite

Vuforia, Unity, Sketchup

Visio, Xcode, Swift

HTML, CSS, JavaScript

Axure, UDP, LabVIEW

an always eager mind