

JEFFREY R. BLUM

Ph.D. Candidate, McGill, Electrical & Computer Engineering. 25+ years experience in industry & academia, including UX design, haptic and audio interfaces, software development, program management, and user research. Dual citizen: Canada/USA.

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📍 Montréal

🌐 github.com/jeffbl

📄 Full CV: cim.mcgill.ca/~jeffbl/about/



EXPERIENCE

Research Assistant, Shared Reality Lab
McGill University, Electrical & Computer Engineering Dept.

📅 Various 2008 – present 📍 Montréal, QC, Canada

- Technical project manager for IMAGE, leading team creating a platform for rendering audio-haptic experiences of web graphics for people who are blind or low vision. (Mar 2021-)
- Lead developer / project manager for Autour (available on Apple AppStore), an iPhone app that uses spatialized audio to render points of interest around a blind individual. (2010-2013)
- Project manager: McGill's deliverables to Health Services Virtual Organization. Designed architecture for 17 camera array for remote interactive viewing of cadaveric dissections. (2008-2010)

Founder / Owner

Glass Lantern, LLC

📅 2002 – 2007 📍 Washington, DC, USA

- Founded Single Member LLC developing mobile apps for pro photographers: PocketLoupe image viewer for RAW images; Pixfer mobile image management; CalTrack calorie tracking app.

Experience Designer / Director of Product Design

Mindsurf Networks

📅 2001 📍 McLean, VA, USA

- Managed Product Design team: Art Director, Experience Designer, two Graphic Designers. Oversaw Mindsurf Achievement Essentials design, for student/teacher collaboration via PDAs.

Program Manager / Lead Program Manager

Microsoft Corp., Mobile Electronics Group

📅 1994 – 2000 📍 Redmond, WA, USA

- Oversaw all aspects of Pocket Outlook software (Calendar, Contacts, Tasks, Note Taker) for three full product cycles: Handheld PC (1996), Palm-size PC (1998), and Pocket PC (2000).
- Drove components from initial design to release: user requirements and feature set, UI design, prototypes and storyboards, writing specifications, setting schedule, leading bug triage.

Campus Consultant / Technical Assistant Intern

NeXT Computer, Inc.

📅 various 1991 – 1994 📍 Redwood City, CA, USA

- Technical and sales support for Princeton; summer internship at NeXT headquarters in Higher Education Marketing.

EDUCATION

Ph.D. Electrical & Computer Eng.
McGill University, 2013-present (ABD)

Supervisor: Jeremy R. Cooperstock
Thesis topic: Haptic (tactile) information delivery in mobile applications. Designed, implemented, and conducted user studies to improve haptic information delivery; authored and presented peer-reviewed papers at international conferences.

B.S.E. Computer Science
Princeton U., 1994, *magna cum laude*

Continuing Education Certificate,
French Professional Communication
McGill University, 2011

SKILLS



LANGUAGES

English ●●●●●●
French ●●●●●●

MOST PROUD OF

🏭 **Shipped products in industry**
Shipped multiple products as Program Manager at Microsoft, and as Founder of single-member LLC.

🎓 **Author on 15+ peer-reviewed papers**
Published articles in areas including mobile systems, audio AR, and haptics. orcid.org/0000-0002-0835-4343

🚶 **Software for people who are blind**
Lead developer for first versions of Autour, an audio augmented reality iPhone app.

☰ **Inventor on 13 issued patents**
Mostly related to mobile user interfaces. One sold to Novartis, for treatment of amblyopia.