

# David Barter

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Interaction designer ■ researcher ■ writer ■ problem solver



## Education

**Bachelor of Science - Interactive Arts & Technology (Interaction Design)**  
Simon Fraser University (Surrey Campus)

*Sept 2004-Apr 2011*

**Bachelor of Design - Industrial Design**  
OCAD University

*Sept 2019-present*

## Skills

- Design: Synthesizing concepts, converting observations into insights, interpreting and shaping behaviour, thinking systemically, conceptualizing and validating services, rapidly prototyping and testing solutions.
- Research: Development and articulation of relevant knowledge, planning and performing qualitative and quantitative user studies, strategic foresight and study of technology trends, analyzing and visualizing data.
- Writing: Effectively able to communicate findings in academic and professional settings.
- Physical & digital fabrication: Adobe Creative Suite (Illustrator, Photoshop, InDesign, XD), wireframes, journey mapping, simple paper/foam prototyping & electronics, front-end web & content management.

## Academic Project Experience

### **Micro-Mobility as a Service [Systemic Design - MaRs Solutions Lab]**

*Jan.-Mar. 2020*

- Strategically envisioned future of city of Toronto to be equipped with data-driven, infrastructure-integrated system of modular micro-mobility vehicles for public transportation, in response to client brief geared towards shaping urban mobility for an aging population.
- Visualized systemic design of concept with system mapping, detailed scenarios with digital storyboards, service journey overlaid with specific value generated at touchpoints between product, service and system with people.

Portfolio: <http://www.davidbarter.net/project/micro-mobility-as-a-service/>

### **Augmented Physical Learning [Business Design Project Proposal - Myant]**

*Jan.-Mar. 2020*

- Developed business design project proposal to synthesize Myant's textile computing technology with augmented/virtual reality partnerships to design a versatile wearable, haptic AR/VR product for the physical training, rehabilitation and e-sports industries.
- Conducted background research on emerging technology trends, competitors and their product and service offerings; helped develop business model and value proposition, identify gains; wrote significant portion of project proposal.

Portfolio: <http://www.davidbarter.net/project/augmented-physical-learning/>

### **Thermal Conceptual Metaphors [Academic Research]**

*July 2012-Jan. 2013*

- Study of metaphors for thermal haptic interaction context, validated for use in interactive systems (i.e. stats show significant agreement in participants' interpretations of metaphors while acting in context).
- Led research phase, established central concepts, designed user studies to rigorously test hypotheses, wrote majority of both work in progress papers (accepted to TEI and CHI 2013).

Portfolio: <http://www.davidbarter.net/project/thermal-conceptual-metaphors/>

### **Point Locus [Tangible/Wearable Interaction Design - Undergrad Thesis]**

*Sept. 2010-Apr. 2011*

- Designed and rigorously evaluated wearable, tangible GPS concept that explores translating directions into tactile language, in order to aid visually impaired people with way finding.
- Analyzed results of interviews and user studies, developed and refined concepts, built and tested low-fi prototypes and design language, presented concept at 2011 Vancouver and San Francisco Maker Faires, TEI 2012 Student Design Competition.

Portfolio: <http://www.davidbarter.net/item/point-locus/>

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## Papers/Publications

- Barter, D., Lin, H., Getting warmer: Identifying population stereotypes for thermal expression, In *Proc. TEI 2013* (2013).
- Lin, H., Barter, D., Wakkary, R., Patterns of Experience in Thermal Conceptual Metaphors, *Proc. CHI 2013*, ACM Press (2013), 1743-1748.

## Work & Volunteer Experience

**Peer Mentor (Volunteer)** OCAD University Campus Life *April 2020-present*

- Shared extensive experience as a student and with academic environment; built network with new students, fellow mentors, university staff members.
- Proactively educated myself on university's services, resources in order to share; established leadership from status as a mature student.

**System Design Consultant** Kwantlen Polytechnic University (Contract) *Oct. 2010-Dec. 2012*  
SFU Segal School of Business (Contract) *Sept.-Dec. 2009*  
SFU Work Integrated Learning (Co-op) *Apr.-Dec. 2008*

- Customized Co-op and Career Services job postings system at 3 campuses, supporting needs of all stakeholders in each department, making transition to new system as smooth as possible, and introducing new, forward-thinking features.
- Role as specialist with this system involved familiarizing myself as much as possible to understand limitations for customization, gathering requirements from stakeholders, using usability best practices to find a fit, and training users.

Portfolio: <http://www.davidbarter.net/item/job-postings-cms/>

**Usability Specialist (Co-op)** Research In Motion *Jan.-Apr. 2010*

- Improved usability of several internal software UIs in self-directed position, including build request logger that was completely, successfully redesigned with emphasis on understanding various user roles and relationship maps.
- Clarified previously unfamiliar roles of tool's user groups using user research and wireframing skills, designed map of component relationships to guide functionality and prevent errors, and rapidly produced mockups for group meetings.

Portfolio: <http://www.davidbarter.net/item/usability-specialist-rim/>

**Web Coordinator (Co-op)** Research In Motion *Sept.-Dec. 2009*

- Managed web content of team intranet site and bi-weekly HTML newsletter with 3,000+ recipients, through frequent contact with product managers and information retrieval.
- Developed skills in CMS use, Flash, HTML and CSS code, as well as social relationships with coworkers, during my time in this role.

Portfolio: <http://www.davidbarter.net/item/web-coordinator-rim/>

**Peer Educator (Learning/Writing Skills Volunteer)** SFU Yosef Wosk Student Learning Commons *Sept. 2006-Apr. 2007*

- Mentored students in writing skills such as essay and research writing, editing, proofreading, paper organization, sentence structure, theme selection, use of writing resources.
- Improved leadership and communication skills working with students in mentor role, shared passion for learning.