



Karl Didrik Monsen (BSc, MSc, MBA, MSc)

Educational Attainment

- PhD, School of Design, Edinburgh College of Art (expected 2016)
- MSc in Informatics, University of Edinburgh (2012)
- MBA in Entrepreneurship, Queen Margaret University (2010)
- MSc in Science and Technology Studies, University of Edinburgh (2007)
- BSc in Information Technology with First Class Honours, Heriot-Watt University, Edinburgh (2006)
- Int. Baccalaureate Diploma, Växjö Katedralskola (2003)

Training and Certification

- Team Building and Leadership (Master class, 2015)
- Microsoft Specialist: HTML5, JavaScript and CSS3 (2013)
- Teacher and Assessor Training (uncertified, 2012)

Technical Specialties

- Agile and Iterative Development, Usability Testing and Refactoring
- Fullstack development using: Linux, Bash, Git, Nginx, Apache, PHP, Node.JS, MongoDB, MySQL, Redis, Phonegap, jQuery/Mobile, Knockout, Bootstrap and others.

Awards

- Best Abstract Prize (Serious Hazards of Transfusion, 2014)
- International Business Case National Finalist (KPMG, 2010)
- Winner of the Social Enterprise Competition (Scottish Institute for Enterprise, 2005)

Publications & References

- Available on request.

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I have a background in software development, user-centered design, teaching and research. My expertise combines deep technical knowledge of the open web platform with a multidisciplinary understanding of design and innovation.

Vocational history

Mobile App Developer (Freelance)

Dec 2015 - Present

Clients in finance and healthcare sectors

Responsibilities: Worked on all aspects of app development, from requirements capture, prototyping and testing through to pushing to all app stores.

Achievements: Created and launched iOS, Android and Windows Mobile apps that have been downloaded by *thousands of users* in a short span of time.

PhD Researcher (full-time salaried)

Sep 2012 - Aug 2015

University of Edinburgh

Responsibilities: Conducted action research with healthcare professionals to explore the use, design and evaluation of mobile apps in medicine.

Achievements: 5 conference talks, 8 publications, thesis and 3 software apps.

Lecturer (0.25 FTE)

Sep 2012 - Aug 2015

Edinburgh College (further education institution)

Responsibilities: Organised courses and developed curricula. Supervised, monitored and assessed student work. Provided pastoral support and made arrangements for students with special learning needs.

Achievements: Delivered a dozen certified courses in Web and Mobile App Design, Photography, Graphics, etc to 100+ learners with excellent feedback. My manager and coworkers praised my technology-enhanced learning.

Software Developer (0.2 FTE)

Aug 2008 - Apr 2011

Human Cognitive Development Lab, University of Edinburgh

Responsibilities: Developed touch-screen software for autistic children in collaboration with a senior lecturer and several postgraduate students.

Achievements: The software successfully elicited language skills in non-verbal children, was a key research tool for the lab leading to a publication and generated interest from speech therapists seeking new interventions.

Web Designer (0.4 FTE)

Sep 2009 - Jan 2010

The Graphics Company, Edinburgh (web design agency)

Responsibilities: Gather and analyse requirements with clients, maintain the portfolio of existing websites and identify suitable e-commerce integrations.

Achievements: Offloaded the team at a period of high workload by implementing security and usability fixes for clients and testing e-commerce solutions.

Associate Consultant (0.2FTE)

Jun 2005 - May 2009

Community Enterprise, West Lothian (social enterprise consultancy agency)

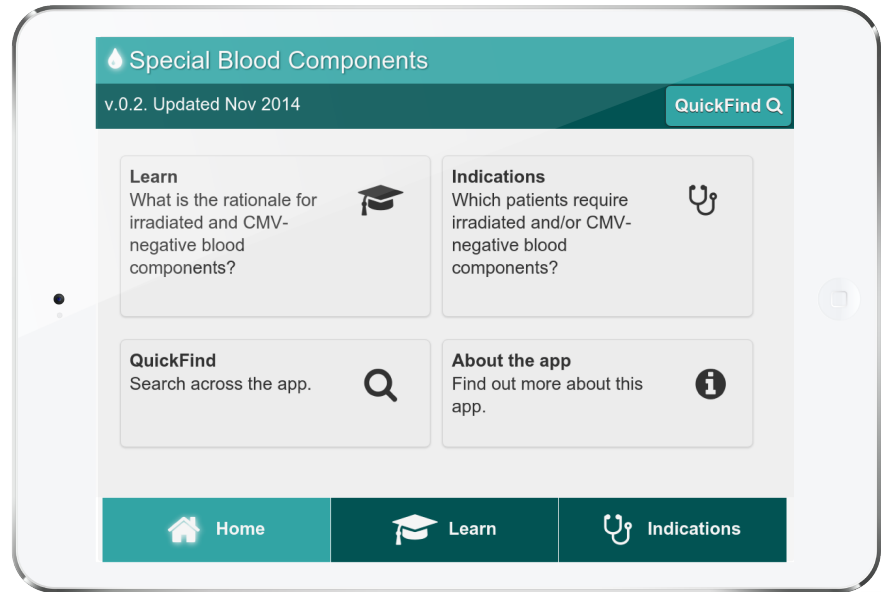
Responsibilities: Design contacts management database, websites and newsletters. Conduct research, training and IT consultancy with clients.

Achievements: Built database with 3000 contacts, revamped electronic newsletter and web site. Contributed to a wide range of client projects.

Selected Portfolio for Karl Didrik Monsen

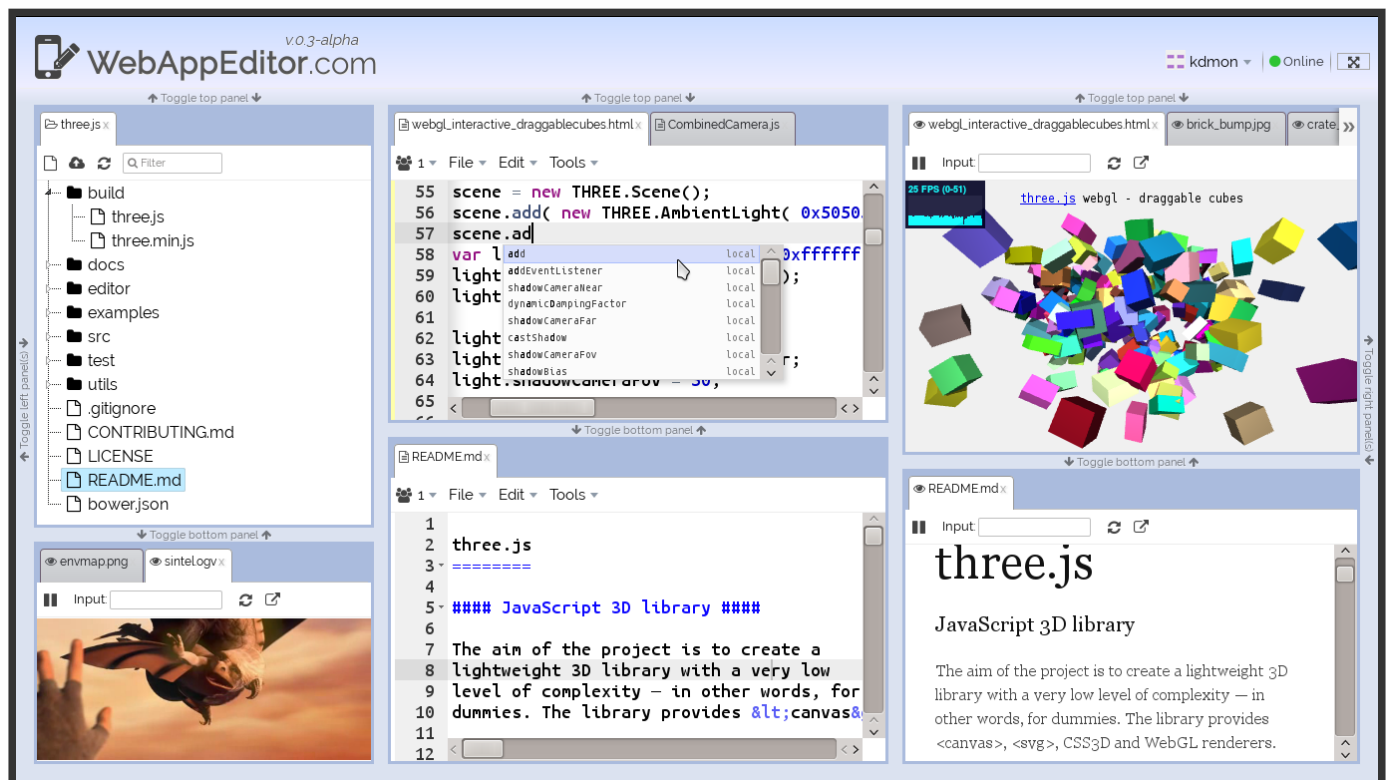
Award-winning Medical App

- Aims to promote the correct use of blood.
- Created in collaboration with the Scottish National Blood Transfusion Service and evaluated with doctors, nurses and lab staff at three Scottish Hospitals.
- Knowledge of safe transfusion practice doubled after use. 90% recommended it.
- Presented to 300+ professionals at the meetings of the British Blood Transfusion Society & Serious Hazards of Transfusion. Awarded Best Abstract prize by SHOT.
- Designed as an interoperable Web App that supports browsers down to IE 6.



Collaborative Code Editor with Github integration

- The editor enables real-time co-development, preview and sharing of web apps without leaving the browser.
- It supports best software practices, such as version control and peer programming, while being easy to use.
- Other key features include file handling, chat, video conferencing, code completion and static analysis.



Additional projects

- Bundling a flagship service by a multinational accountancy firm into iOS, Android and Windows Phone apps.
- RESTful API (Node, MongoDB) and GUI (Bootstrap, W2UI, DyGraph) for monitoring MSSQL database servers.
- System for conducting randomised controlled trials of medical apps in the browser (Knockout, PHP).
- Geolocate Audio Guide for exploring oral community history (GPS, speech synthesis and mapping APIs).
- Interactive art involving spherical displays, infrared cameras, accelerometers, raspberry Pis, 3D printers etc.