

JULIEN PENDERS

Co-Founder & COO @ Bloomlife
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Engineer. Entrepreneur. Dad. Founder. On a mission to improve prenatal health with technology that accurately tracks the health of moms and babies. Deploying medical grade technologies in the hands of consumers. Powering the future of medicine thru crowdsourcing unprecedented biometric datasets. 15-year experience in R&D and product development pushing the limits of technology at the intersection of digital health and med-tech. Author of 60+ peer-reviewed publications and 8 patents. International team leader. TEDx and Creativity World Forum speaker. BAEF fellow.

PROFESSIONAL EXPERIENCE

BLOOMLIFE, INC. (2014 – PRESENT) | SAN FRANCISCO, CA

Co-founder & COO

Improving the health of moms and babies through connected devices and data analytics. Delivering personalized guidance and reassurance to moms, and better information to improve clinical decision making for doctors. Founder. Product, engineering, R&D, clinical research and operations across North America and Europe.

IMEC (2014 – 2015) | SAN FRANCISCO, CA, USA

Program Director Wearable Healthcare USA

Set strategy and research agenda for imec's wearable healthcare activities in North America. Led key accounts. Led the development of the reference sensor module for Samsung's SIMBAND.

IMEC (2006 – 2014) | EINDHOVEN, THE NETHERLANDS

Program Manager & Product Marketing Manager, Body Area Networks

Lead development of new product concepts shaping the future of health and wellness, including wearable ECG patches and wireless headgear for brain monitoring. Created the Body Area Networks program from scratch; grew it to a 30+ people team with 5M Euro turnover.

OTHER PROFESSIONAL ACTIVITIES

ADVISOR/MENTOR

2019-present: Gabi SmartCare, Strategic Advisor

2017-present: The Refiners, Mentor

GUEST LECTURER OR FACULTY

2017: Guest lecturer, Santa Carla University

2015: Guest lecturer, University of Houston

2009-2014: Guest lecturer, University of Liege (Belgium)

2013: Faculty, Summer school on Emerging Technologies & Applications in Telemedicine, Slovakia

IEEE TECHNICAL COMMITTEE ON BIOMEDICAL HEALTH INFORMATICS

Since 2012: Committee member

IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS

Since 2018: Associate Editor

EDUCATION

BOSTON UNIVERSITY, College of Engineering, BOSTON MA

Master of Science in Biomedical Engineering, September 2006 | GPA: 3.96/4.00

UNIVERSITY OF LIEGE, BELGIUM

Ingénieur, Engineering Physics, June 2004 | Summa cum laude (96% average grade)

KEYNOTES & INVITED TALKS (SELECTED)

November 2021: Guest Lecturer, BHI Technical and Educational Lecture Series
August 2021: Speaker, Guest IEEE EMBS Public Forum on Healthcare Tech Industry Trends
February 2021: Speaker, IEEE EMBS Forum on Data Science and Engineering in Healthcare
April 2018: Speaker, Finals of Ideals for Europe, The Hague, The Netherlands
September 2017: Speaker, Semi-finals of Ideas for Europe, Tallinn, Estonia
May 2017: Speaker, *TEDxLiege*, Liege, Belgium
December 2015: Invited speaker, *Designer of Things* Conference, San Jose, CA
May 2015: Keynote at the *University of Houston BME days*, Houston, TX
May 2014: Featured in Samsung's SIMBAND announcement, San Francisco, CA
May 2013: Invited speaker, *The Royal Society meeting*, London, UK
May 2013: Invited speaker, *International Body Sensor Networks conference*, Boston (MA), USA
January 2013: Guest speaker, *Health 2.0 Middle-East*, Dubai, Saudi Arabia
September 2012: Keynote speaker at the *BodyNets conference*, Oslo, Norway
June 2012: Keynote speaker, hSITE Annual Review Meeting, Mc Gill University, Montreal, Canada
March 2012: Speaker, *TEDxLeuven*, Leuven, Belgium
November 2011: Speaker, *Creativity World Forum*, Hasselt, Belgium

AWARDS AND FELLOWSHIPS

Winner of the Extreme Tech Challenge by Sir Richard Brandson (Necker Island, 2016)
Winner of the best health start-up at LAUNCH festival (San Francisco, CA, 2016)
Semi-finalist of the Medtech Innovator award (San Francisco, CA, 2015)
Finalist of the pediatric health pitch competition at SXSW (Austin, TX, 2015)
Boston University, College of Engineering | Research Assistant Fellow (2005-2006)
Belgian American Educational Foundation (BAEF) | Fellow (Belgium, 2004-2005)
Université de Liege (Belgium), Association of Engineers | Best Thesis Award (Liege, Belgium, 2004)

SELECTED PATENTS (PUBLISHED)

A method and a system for sensor signal analysis, WO 2008 151818
Heart Pulse Rate Monitor, US 2011/0152701
Integrated monitoring device arranged for recording and processing body sounds, US 0817029/12
Cardiac monitoring circuit with adaptive sampling, US 12882120
Memory control system for a non-volatile memory and control method, EP 2884369