

MARIE-ANGE JANVIER, Ph.D, P. Eng., ing., CCE

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PROFILE

An experienced **Clinical Engineer (Ph.D in biomedical engineering) licensed professionally in Ontario and Quebec, Canadian Board Certified Clinical Engineer (CCE)**, skilled in equipment management and customer relations.

PROFESSIONAL SKILLS

- Member of the Professional Engineers of Ontario and l'Ordre des Ingenieurs du Quebec.
- Canadian Board Certified Clinical Engineer.
- 10 years of clinical engineering experience.
- Proficiency in MS Office Suite, including Outlook, Word, Excel, PowerPoint.
- Bilingual in French and English languages.
- Project management and leadership skills.
- Excellent communication, presentation and interpersonal skills.
- Autonomous, quick learning, decision making, research and ingenuity skills.
- Coordinating, organizing, planning, development, analytical, problem solving and strategic and budgeting skills.
- Sound knowledge of CSA regulations, Health Canada regulations, HARP Act, Occupational Health and Safety Act, Codes and Regulations.
- Six Sigma Greenbelt Lean Management Certification.

ACADEMIC EDUCATION

2003/09 -2010/12

Ph.D in biomedical engineering, Laboratory of Biorheology and Medical Ultrasonics (LBUM), Institute of biomedical engineering, *Université de Montréal (UM)/Polytechnique*, Montréal, Québec.

Title of thesis: Optimisation and validation of a new 3D-US imaging robotic system to detect and quantify lower limbs arterial stenoses.

Supervisors: D^r Guy Cloutier & D^r Gilles Soulez

1999/09 - 2003/05

B. App. Sc. in electrical engineering (Management & Entrepreneurship option), *with honors summa cum laude*, *University of Ottawa (UO)*, Ottawa, Ontario, Canada.

Specialization: Microwave circuits and photons with option to entrepreneurship and management.

Honours Project: *Mobile robot design (using VHDL)*.

PROFESSIONAL WORK EXPERIENCE

- 2021/02-Present **University of Ottawa**
Adjunct Professor, Part-time, Department of Mechanical Engineering, Ottawa, Canada.
Activities: Supervised Master students interns' project and activities for their training into the clinical engineering field.

Acquired skills: leadership, problem solving, critical thinking, interpersonal and strategic skills.
- 2019/11- Present **Carleton University**
Adjunct Research Professor, Part-time, Department of Systems and Computer Engineering, Ottawa, Canada.
Activities: Supervised Master students interns' project and activities for their training into the clinical engineering field.

Acquired skills: leadership, problem solving, critical thinking, interpersonal and strategic skills.
- 2012/02-Present **Children's Hospital of Eastern Ontario (CHEO),**
Clinical Engineer, Full time, Ottawa, Canada.
Activities: Managed projects related to the organization medical device needs including procurement. Worked with a multi-disciplinary team of professionals.
Project Achievements (Successfully implemented and in progress):
SPECT/CT , Pan Ceph dental x-ray unit, Metaphase Scanning System & Cytovision software upgrade, Operating Room Surgical lights, New saturation probe trials, Large Volume Infusion pumps, CRRT (Dialysis machines), Ophthalmology Clinic, Mobile X-Ray unit, Cath Lab and Sim Lab. New emergency development wing at Carleton Place Hospital and fluoroscopic room RFP with Hawkesbury Hospital, Montfort Hospital Ultrasound, mobile x-ray unit procurement. Supervised student interns at bachelor and Master Level for biomedical engineering studies.

Acquired skills: leadership, technical, problem solving, critical thinking, project management, people and strategic and budgeting skills.
- 2011/06-2011/12 **Centre de santé et de services sociaux du Sud de Lanaudière,** *Biomedical engineer, Centre Hospitalier Pierre Le Gardeur, Terrebonne, Québec, Canada.*
Activities: Planned the replacement of medical equipment following acquisition procedures of the institution.

Acquired skills: Leadership and project management skills. Acquired a network of contacts in the field of clinical engineering.

PROFESSIONAL TEACHING EXPERIENCE

- 2021/09- 2021/12 &
2019/09- 2019/12 &
2018/09 -2018/12 **Introduction to Biomedical Engineering**, *Part-time Professor*, University of Ottawa, Ottawa, Ontario.
Activities: Organized lectures for graduate students and coordinated the activities around quizzes, presentations etc.
Acquired skills: Leadership, communication and management skills.
- 2015/01- 2015/04 **Design of Artificial Organs**, *Part-time Professor*, University of Ottawa, Ottawa, Ontario.
Activities: Organized lectures for undergraduate students and coordinated the activities around quizzes, presentations etc.
Acquired skills: Leadership, communication and management skills.

AWARDS

- 2017 Early Career Achievement Award by the Canadian Medical and Biological Engineering Society (CMBES)
- 2016 International Federation of Medical and Biomedical Engineering (IFMBE)'s 2016 Outstanding Clinical Engineering Teamwork Award for the CHEO Clinical Engineering Team.

PROFESSIONAL INVOLVEMENT

- 2021/02- Present **Equity, Diversity, Inclusion and Indignity Task Force, CHEO, CHEO RI and CHEO Foundation**, *Steering Committee member*, Ottawa, Ontario, Canada.
Activities to look forward to: This Steering Committee will guide work across our three organizations to address inequities and put forward recommendations for change.
Acquired skills: Collaborative, communication, leadership and interpersonal skills.
- 2020/05- Present **Regional Group Representative for North America, Council of Societies, International Federation for Medical and Biological Engineering (IFMBE)**, *executive member*, international.
Activities: Communicated with top societies members in IFMBE and provided their report to the committee. Currently doing a survey on

gender representation in societies and writing a report for best practices.

Acquired skills: Leadership, communication, management and strategic skills.

2017/09- Present

Past-Chair, Chair & Chair-Elect for the Canadian Board of Examiners for Clinical Engineering, *executive member*, Ottawa, Ontario, Canada.

Activities: Reviewed and examined candidates for the accreditation of the certification of the Clinical Engineering profession in Canada.

Acquired skills: Leadership, communication, management and strategic skills.

2012/09- Present

CMBES (Canadian Medical and Biological Engineering Society), *membership committee, executive member, bilingual chair committee*, Ottawa, Ontario, Canada.

Activities: Prepared strategies to recruit students and professional from different provinces in the field of biomedical engineering. Co-Chaired the Clinical Engineering Stream in 2013 the CMBES conference in Ottawa. Chair of the Continuing Education program in the 2019 CMBES conference in Ottawa. Obtained a grant to translate the CMBES website in French. Finalized the translation of the website.

Acquired skills: Leadership, communication, management and strategic skills.

2014/03- 2016/03

Pharmacie Sans Frontieres Canada, *volunteer*, Ottawa, Ontario, Canada

Activities: Coordinated meetings for the Haitian Diaspora in Ottawa and Montreal for the project of “Pictogram”- Drawings to help patients understand the correct methods for taking drugs.

Acquired skills: Leadership, communication, management and strategy skills.

LANGUAGES WRITTEN & SPOKEN

French, English, Creole and beginner Russian.

TECHNICAL SKILLS

Proficient with MS Office, MatLab, Word, Excel, PowerPoint.
Experience with electronic lab equipment.

INTERESTS

Personal growth, reading, learning new skills, teaching, travelling, cultures, finance and business.

REFERENCES

Marie-Ange Janvier

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Available upon request.