

Ali Hashemi

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Denise Doucet
Operations Manager
Zimmer Biomet
75 Rue Queen,
Montréal, QC H3C 2N6

RE: Mechanical Engineer position posted on your website

Dear Denise Doucet,

I am incredibly enthused to contribute to your organization's commitment to addressing healthcare disparities in orthopedics. Zimmer Biomet's generosity has provided individuals and communities with opportunities to advance medical technology, treatments, and knowledge. As a result, I have been inspired to help others achieve their goals with my enthusiasm and knowledge of medical devices, just as you have helped others through your environmental and social initiatives. To further give back to the community, I am striving to continuously improve surgical experiences for everyone involved as part of your team's progressive culture of evolution and innovation.

I am passionate about improving the quality of life for both patients and healthcare professionals in stressful surgeries. During my graduate studies, my research focused on devising a method to reduce physical stress and x-ray exposure time for physicians during endovascular procedures. I carefully analyzed the proposed methods and protocols based on past research documents, research projects presented from other universities at conferences, and patient and physician interactions to better understand their surgical experiences. Based on quantitative and qualitative data, I then conducted various simulations and tested prototypes through methodological analyses of numerical finite element simulation, force estimation, and catheter-vessel interactions. After I recorded and compiled my results accurately and concisely, I managed to write and present peer-reviewed abstracts and publications to expert and lay audiences at multiple conferences. With the continuous support from my supervisors and the undergraduate students I have mentored, I successfully designed a robot-assisted catheter operating system and an intraluminal control force visual monitoring system.

With my extensive background in research within mechanical and biomedical engineering, I am confident I can contribute positively as a Mechanical Engineer to the efforts of the organization. Please do not hesitate to contact me by email or phone if you have any questions. Thank you for your time and consideration, and I look forward to speaking with you to further discuss this opportunity with you.

Sincerely,

Ali Hashemi