

# Ek-Ching Ngwe

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Dear Hiring Manager:

The role of medical device in healthcare is important. The development of this area contributes significantly change to the quality and efficacy of healthcare. I am particular interested to apply my knowledge and skills in this innovative and challenging industry. I believe my background, skills, and goals are a perfect match for this industry. You can be sure that there is nothing I would rather do than to begin employment in which my performance will be met with recognition and growth. As such, please accept my application in your office.

With a bachelor degree in Mechanical Engineering and master degree in Biomedical Engineering, I am confident that my skills are a match to the skills desire in this industry. I have acquired an overall knowledge of leading edge engineering principles, tools, and practices with emphasis on designing, analyzing and testing medical devices. I am confident in my ability to help you translate your creative ideas into ground breaking products. I believe my strong knowledge in computational fluid dynamics analysis and numerical modeling technique could bring productivity to the company. In my master thesis, I designed a flow chamber which mimicking the concept of ventricular assist device to study the hemodynamic performance of prosthetic heart valves. I gained valuable experience in designing and analyzing hemodynamic performance in medical device, as well as enhancing my programming skills through various Computer Aided Engineering applications. In order to enhance my background in biomedical engineering, I worked as a Resident Research Scholar in Biomedical Lab at Oklahoma State University after I got my master degree. I was responsible for designed experimental devices and experiments for undergrad and grad students, as well as supervised them. I gained valuable knowledge and practice in wet lab techniques, like cell culture and tissue culture, flow cytometry, SELDI, RT-PCR and various cells activity measurement. I have applied classroom learning to an innovative and successful project in which I served as principal designer in my senior design project. I was responsible for collaborating with professional engineers to design and modify engine structure. Currently, I am working as a Mechanical Engineer in a manufacturing company that produces bi-axial oriented polypropylene film. I am responsible for improving and modifying defect parts of the production line, as well as performing schedule maintenance.

Would you allow me the opportunity to visit with you and talk about the contributions I could make for your company? It would be indeed be a privilege. Please feel free to contact me at your convenience if you have any questions or would like to schedule an interview. Thank you for your time and consideration of my application.

Thank you.

Sincerely yours,

Ek-Ching Ngwe