**Personal Statement**

The objective for my Master’s research project is to develop improved endoscopic ear surgery instruments. Relevant experience gained through my undergraduate degree in Biomedical Systems Engineering at the University of Toronto and my internship at a medical device company will enable the success of this project. During my internship of 16 months at Baylis Medical Company, I designed and tested manufacturing processes and tools for a mechanical medical device. I built up skills in 3D modeling software and basic machining to develop prototypes that were tested and further improved through team collaboration. In order to ensure the tools and processes were easy to use and successfully built functional devices, I worked with a team of engineers as well as the users of the tools during development. For my final year design project, I used these skills to develop a functional, initial prototype of an instrument to facilitate graft removal from a Rosen Needle. Therefore, these skills have and will enable me to design robust final prototypes that are functional and reliable for surgical use.