

Improving the Efficiency of a Medical Respiratory Device

Status: Available

Group Members: TBD

Sponsor(s): Pacificure Biomedical Inc.

Supervisor(s): Siamak Arzanpour, PhD, PEng, Assistant Professor, Mechatronics Systems Engineering

Project Description

The objective of this project is to increase the efficiency of an existing medical device for respiratory patients by utilizing an innovative technique to improve the flow of medication. This is an add-on device used to increase the ease of administering aerosolized medication. The device helps to deliver medicine to patient's lungs which significantly improves the efficacy of drug delivery. It also reduces the risk of side effects of the medication. In the new version of the device a vibration technology will be used to optimize the flow of aerosol resulting in the enhanced efficacy of the medication