Patients with laryngeal cancer at an advanced stage level should undergo treatment in the form of removal of the laring through surgery. Laringealsurgery is done through laryngectomee cause the voice will be lost. There are several ways to do so that people can talk back even though the sound produced is not the same as when having larynx.

Electrolarynx is one of the tools used to speak after laryngectomee. In previous research, prototyping electrolarynx was not provide optimal results. This study used the ATmega8 microcontroller and a permanent magnet as one of the main components to improve the electrolarynx prototype.

The result shows, based on mechanical and analytical testing, the appropriate fundamental frequency is 125 Hz. In general, this design electrolarynx has been able to provide the information desired sound.

Keywords: Laryngeal Cancer, Laryngectomee, Electrolarynx