

**Development of Sound Presentation System (SPS) for Characterization  
of Sound Induced Displacements in Tympanic Membranes**

A Thesis

Submitted to the faculty of the

**Worcester Polytechnic Institute**

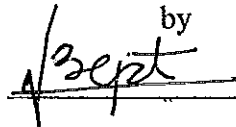
as a partial fulfillment of the requirements for the

Degree of Master of Science

in

Mechanical Engineering

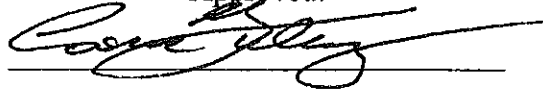
by



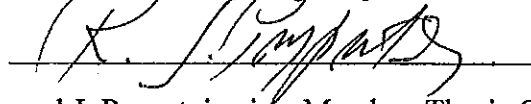
Nikhil Bapat

4/28/2011 at 12pm

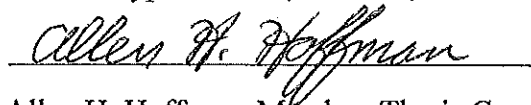
Approved:



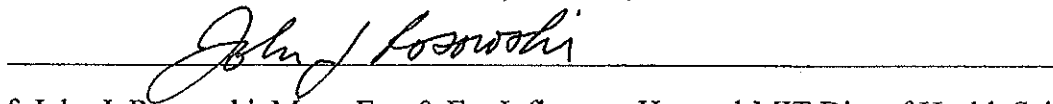
Prof. Cosme Furlong, Major Advisor



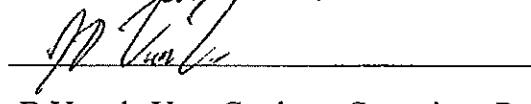
Prof. Ryszard J. Pryputniewicz, Member, Thesis Committee



Prof. Allen H. Hoffman, Member, Thesis Committee



Prof. John J. Rosowski, Mass. Eye & Ear Infirmary, Harvard-MIT Div. of Health Science  
and Technology, Member, Thesis Committee



Prof. James D. Van de Ven, Graduate Committee Representative