

## Honors Research Project Proposal Form

Project Title:	Galvanic Vestibular Stimulation (GVS)
Contact Info:	Name: Brian Self - Mechanical Engineering Lynne Slivovsky - Electrical Engineering Phone Number: 6-7993
Department:	Mechanical Engineering & Electrical Engineering
College:	Engineering
Description of the project:	<p>Want to be a part of clinical research at Cal Poly?</p> <p>The vestibular system is what the body uses to provide orientation information to the brain. Galvanic Vestibular Stimulation (GVS) stimulates the human vestibular system to generate yaw, pitch, and roll orientation sensations.</p> <p>Cal Poly and the Mayo clinic in Scottsdale, AZ have outlined two research objectives to explore in this study. The first objective is to explore the effects of GVS coupled with a visual stimulus, the flight simulator, on human's vestibular system. The second objective is to test if GVS can be used as an indicator of individuals with heightened motion sensitivity.</p> <p>Check out this you tube video of galvanic vestibular stimulation: <a href="http://www.youtube.com/watch?v=Kf0E9llkZIU&amp;feature=related">http://www.youtube.com/watch?v=Kf0E9llkZIU&amp;feature=related</a></p> <p>The honors student will be trained on how to connect individuals to the GVS system. They will assist with testing, and help write a paper presenting the acquired data. The paper has potential to be a published document.</p> <p>For more information please contact:</p> <p>Joel Hanson Electrical Engineering <a href="mailto:Hanson@calpoly.edu">Hanson@calpoly.edu</a></p>

Number of  
Honors  
students  
needed, and  
their majors:

Need 1 student (sophomore or junior) majoring in Biology or  
Kinesiology