

Internship in Electronic Engineering

Supervisor	Prof. Dr. Rodrigo Marques de Figueiredo
Project	Gesture Recognition Electromyography http://www.unisinos.br/graduacao/engenharia-eletronica/presencial/sao-leopoldo
Description	The main objective is to develop a device capable of picking up electromyographic signals and performing their processing to identify gestures. This system manages the identification of fine gestures, which can be applied to limb prostheses. Through this device the protests of members can be adapted in a more natural way for the user, making these can be used in an easily manner.
Tasks	The laboratories have the necessary measuring equipment for the sensors electrical characterization. They also have PCB prototyping machines for the development of PCBs for the electronic circuits developed by the laboratory researchers. Develop electronic circuit to electromyographic signals conditioning.
Requirements	<ul style="list-style-type: none"> • Students of Electronics Engineering • Undergraduate student (at least beginning of the 2nd year) • Basic skills in scientific working (lab and/or field experiments)
Language Skills	English (Portuguese would be nice but is not necessary).
Duration	4 months
Possible Beginning	Internship between: February/July
Credits	According to agreement
Payment	None