

IEEE SP/EMB and ED/IM/SSC Lecture

Title: Challenges and aspects of building an electroencephalograph

Lecturer: Silver Kuusik, MSc

Date: 17.05.2016

Time: 11:00

Location: Conference room FEEIT

Abstract: EEG (Electroencephalography) is typically a noninvasive method to monitor brain waves. It is popularly used for monitoring epileptic seizures, brain death and anesthesia. Using a typical EEG device requires a low noise environment and good placement of the electrodes on the scalp. A good device and setup are vital to get a nice brain wave reading. There are many challenges when building an EEG device for home use. The Brain-Duino is an open source effort to address those problems and bring a high quality, low noise EEG device to end users.

Short bio:

Silver Kuusik, MSc graduated at the Estonian Information Technology College, Tallinn, Estonia, in 2011 and finished his master studies at the Faculty of Computer Science and Electrical Engineering in Kiel University of Applied Sciences, Kiel, Germany, in 2015. As a hobby he was building robots and held many programming workshops for children in Estonia. In the beginning of 2014 he became interested in EEG technology and joined the www.brain-duino.com project to build an open source EEG. In the end of 2015 he co-founded a company www.neurofox.com to continue working on the Brain-Duino project. He has learned many aspects about building and using an EEG device.