

## Challenge

The goal of this project is to make an alternative version of the sociometric badge that is easy to make for non technical people and has all data to be easily audited.

Raspberry PI (3/Zero) will be used for the main processing unit for this project sociometric badge. And instead of compiling codes, pre - compiled applications will be ready to be used directly with minimal setting as possible. Rhythm server or a simple NodeJS based server will be made and data will be stored in a MySQL or MongoDB based database. The choose of Raspberry PI and NodeJS server are because these are the currently popular development platform.

## Questions


- How to make a non - technical user who has little to no experience in electronics and programming to be able to finished a simple DIY electronics project?
- How to determine whether a technical project is doable or not for people without technical background?

## Practical Aspects

- Constraining aspects.
  - Fast technological development means that development platforms and instructions might be obsolete in the future.
  - I have little knowledge about sociometric in general. Hence, in this project I would like to make a DIY sociometric badge to just solely extract raw sociometric data.
- Enabling aspects.
  - Alternative and availability of tools helped a lot for other people to make DIY project. In case of a certain development tool goes obsolete or not available to buy, there must be another options.
  - Communities everywhere are making articles, guides, and tutorials.
  - Some development tools are not intended for professional (even amateur) electrical engineer or programmer.

## Signatures

Wednesday, 2 November 2016.



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