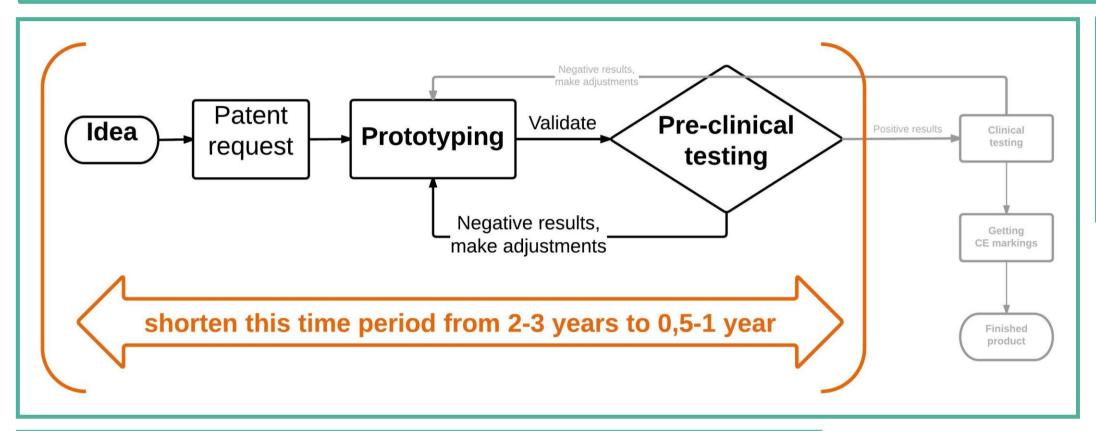
Masterproef industriële ingenieurswetenschappen

Accelerating Health Tech

Bram Oosterbos Academiejaar: 2014 - 2015

Introduction

The goal of this masters thesis is to accelerate the technology within the healthcare sector. This can be done by shortening the time period from idea to clinical testing. These days it takes two or three years to make a working prototype ready for clinical testing. But we think it could be possible to do this within 1 year when you have access to the proper tools and information to do so. And that is what this masters' thesis provides.



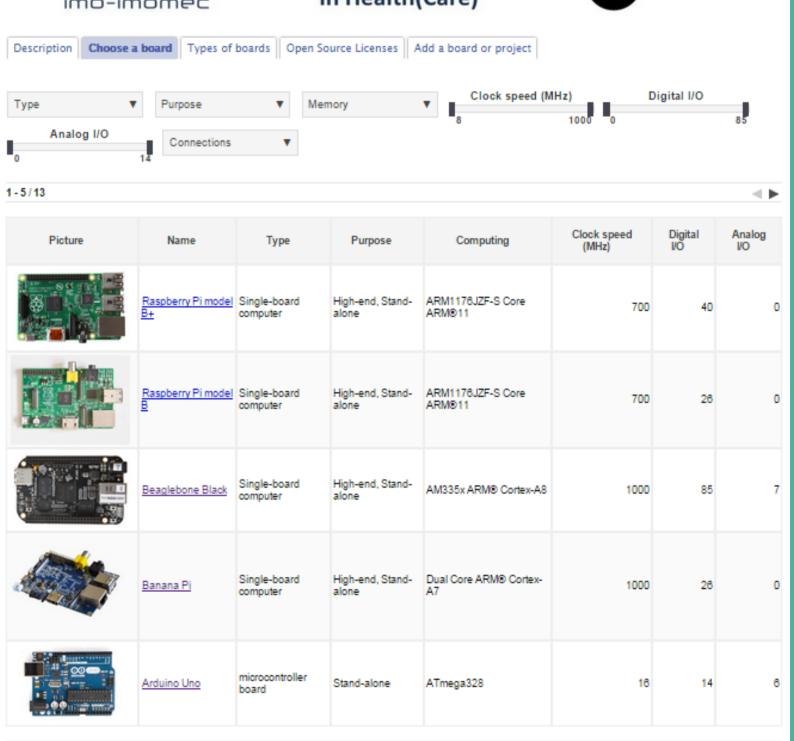
Patent request

Request your patent before you start prototyping so you do not interfere with the licenses of the open source hardware.

Mobile prototyping

- Make apps fast and easy
- Limited android knowledge
- Drag and drop process





Hardware prototyping

Advantages of Open Source:

- Faster and easier development
- Less expensive process and product
- A lot of support and examples
- Wide overall compatibility

open source hardware

Pre-clinical testing

This can be done faster because the development is in-house:

- No waiting time due to PCB supplier
- Rapid feedback to development team
- Close control over test results

Results

Online portal with all the information and tools needed to make a prototype or product for medical purposes:

- Tool to help you choose a board
- Example projects
- Summarized open source licenses
- Information about requesting a patent w.r.t. open source hardware

Promotoren / Copromotoren: Prof

Prof. Dr. Ir. Ronald Thoelen

Ir. Vincent Claes



