

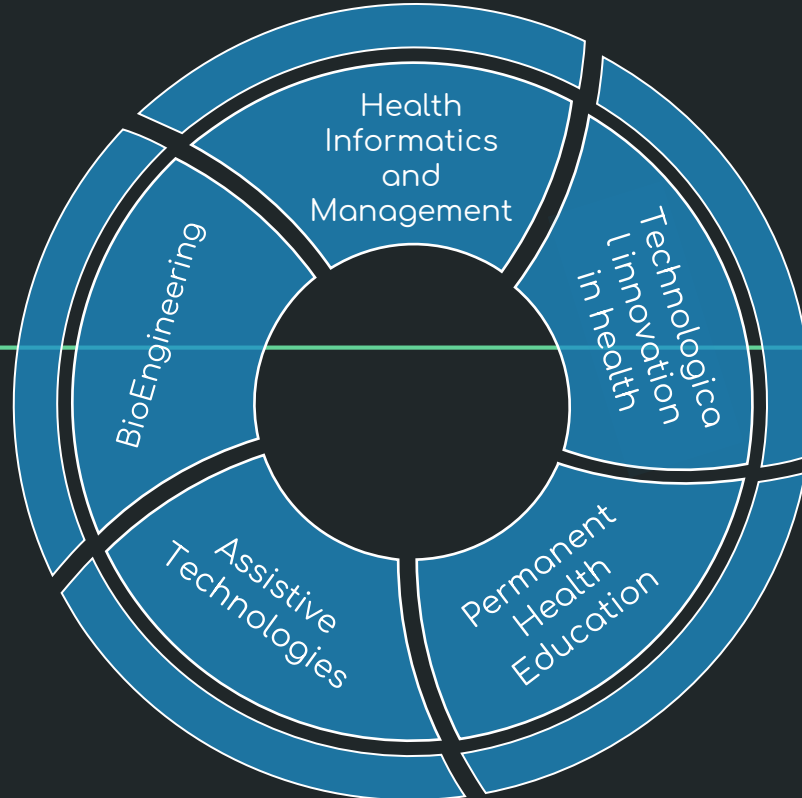
# Designing of OER on PBL: A Humanitarian Approach for the Learning of Programming at the Brazilian LAIS

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Danieli Silva de Souza Rabelo Rabelo  
Ricardo Alexsandro de Medeiros Valentim  
Carlos Alberto Oliveira

# Who we are?

Health Technological Innovation Laboratory



# LAIS in numbers



## More than 400

Researchers

- 254 research projects
- 9 Patents
- 75 software records
- 47 published books

# So...

*What was the problem?*

- 
1. Programming Technical Training for your researchers
  1. It was necessary to have contextualized and applied training

And Now, who we are?

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# Programming School Team



# Coordinators and Tutors



**Ricardo Valentim**

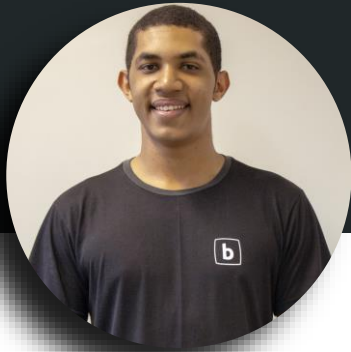
LAIS Coordinator  
PhD in Electrical and  
Computer Engineering at  
UFRN  
Professor of the Department  
of Biomedical Engineering



**Danieli Rabelo**

Learning Specialist  
LAIS Researcher  
LAIS School Coordinator  
Master in Innovation and  
Educational Technology

# Developers



**Cleiton Lima**

Graduating in  
Information  
Technology  
LAIS Researcher  
Backend Developer



**Gabriel Machado**

Bachelor of Science &  
Technology -  
Emphasis on Materials  
LAIS Researcher



**Matheus Oliveira**

Graduating in  
Biomedical  
Engineering  
LAIS Researcher  
Backend Developer



**Luca Pareja**

Bachelor of Science &  
Technology  
LAIS Researcher



# Desenvolvedores



Mariana Araújo

Graduating in  
Mechanical  
Engineering  
LAIS Researcher  
FrontEnd Developer



Matheus Coutinho

Graduating in  
Mechanical  
Engineering  
LAIS Researcher  
Backend Developer



Aisha Rabelo

Graduating in Design  
LAIS Researcher



Deyvison Silas

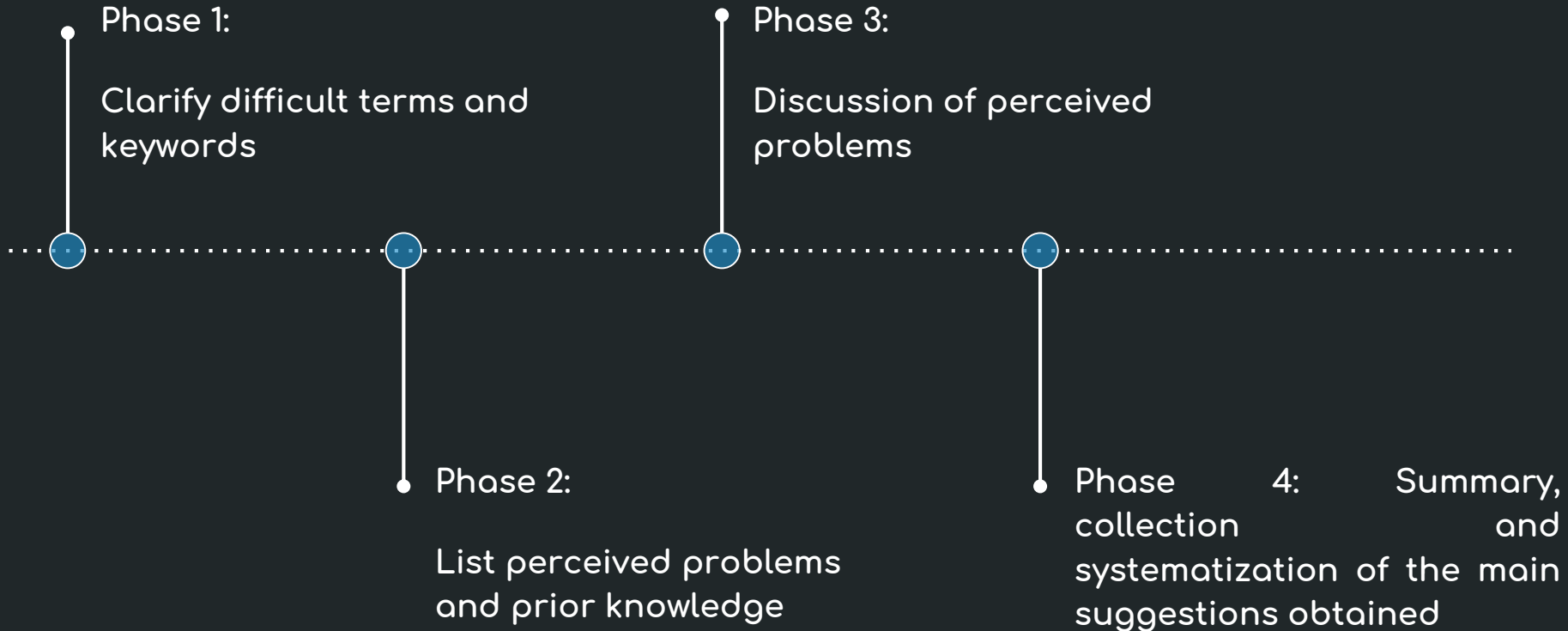
Graduating in Design  
LAIS Researcher



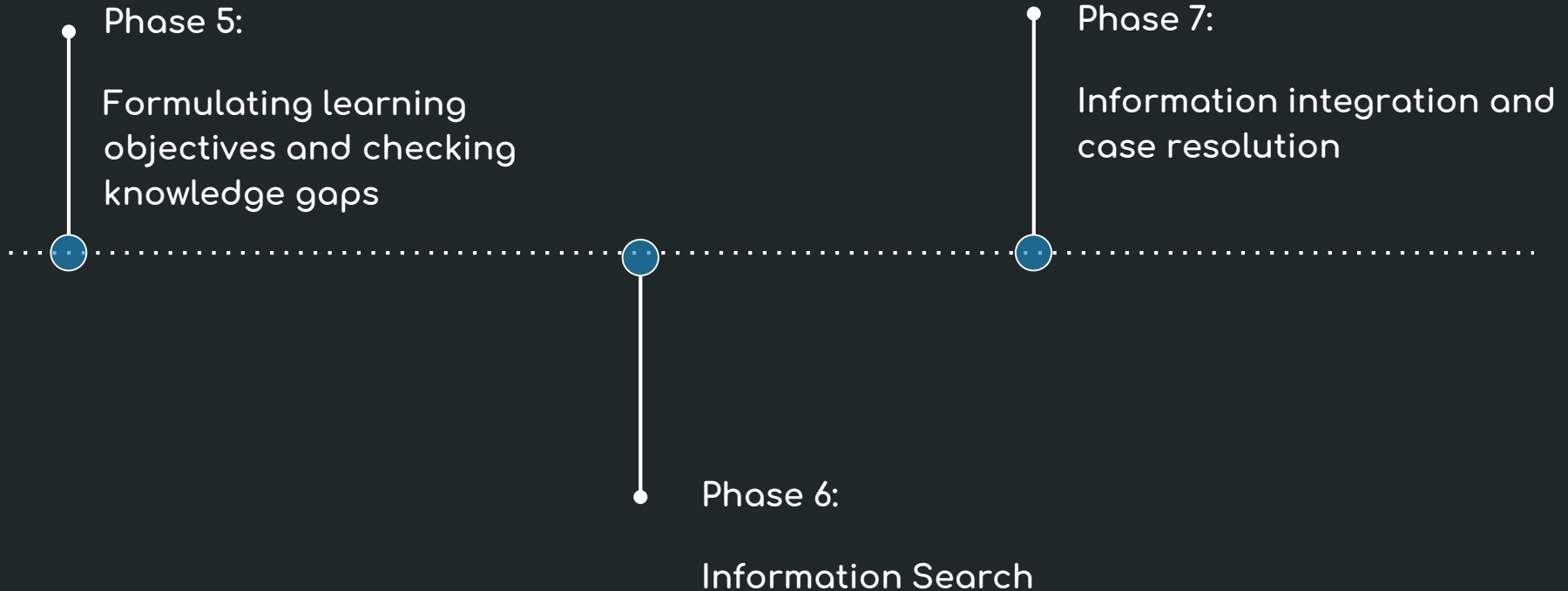
METHODOLOGY

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# PBL (Problem Based Learning)

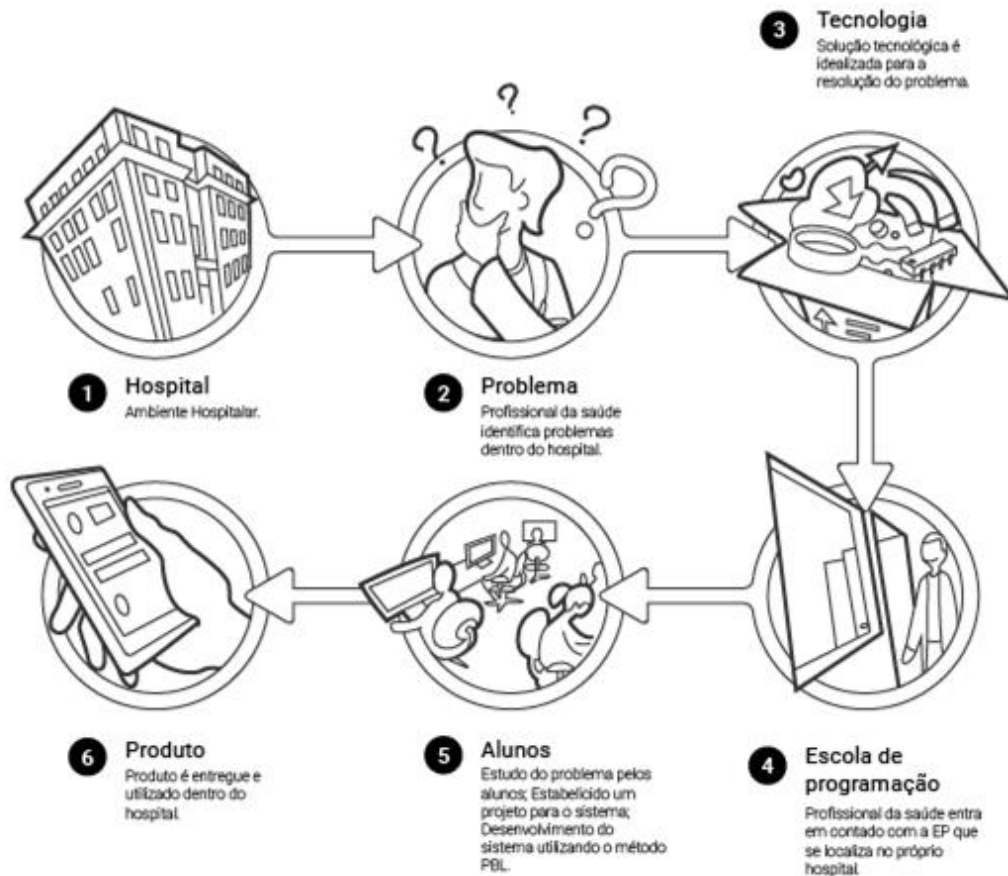


# PBL (Problem Based Learning)

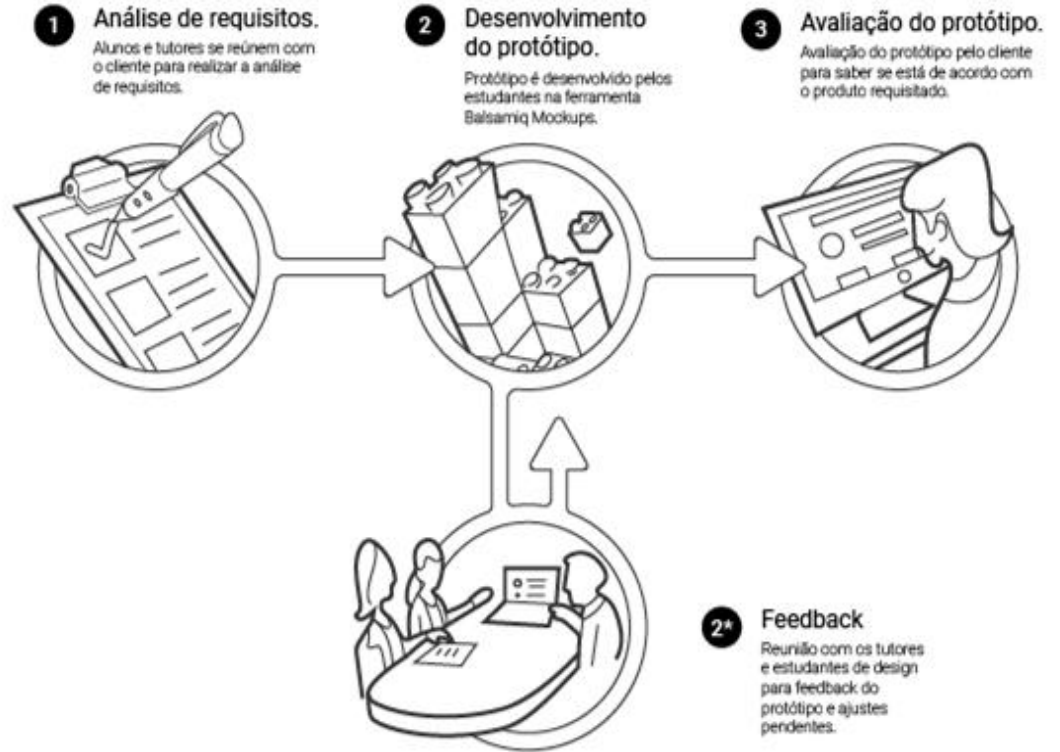


[http://bibliotecadigital.sedis.ufrn.br/escola\\_lais/](http://bibliotecadigital.sedis.ufrn.br/escola_lais/)

# Flowchart of activities and information in PE:

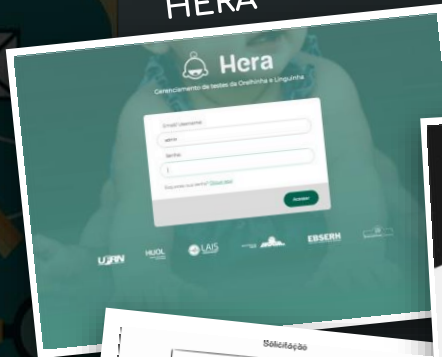


# Prototyping Flowchart



# SOME PROJECTS

HERA



SITE DA EP



Gr-Huol



Fluxo Hemodinâmico

Solicitação

Informações e registro do paciente	
Nome	Nome
Cartão SUS	Cartão SUS
Resposta	Resposta

Dados de procedimento de acordo com o tabuleiro de SOT/SP	
Chegar SOT/SP	Chegar SOT/SP
Retorno de procedimento (SOT/SP)	Retorno de procedimento (SOT/SP)
Id de acesso de acesso	Id de acesso de acesso
Id de acesso de acesso	Id de acesso de acesso
Instrumentos de acesso	Instrumentos de acesso
Medicamento de acesso	Medicamento de acesso

Materiais	
Material	Quantidade de material
1	1
2	2
3	3
4	4

Materiais não	
Material	Quantidade de material
1	1
2	2
3	3
4	4



# Methodological Architecture



<http://bibliotecadigital.sedis.ufrn.br/graficopbl/>



"Education does not change the world.  
Education changes people. People change the  
world"

(FREIRE, Paulo)

# Thank you ICDE!!

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