

Project Organisation

The 'Potiboard project' is divided into two sub-projects:

Potiboard-Encoder-Device

The group *Hardware and Electronics (HEL)* from ACO will develop, build and maintain the potiboard encoder devices.

Volker Kleipa is the sub-project lead.

PotiboardApp Application

The main development of the application is outsourced. This subproject is under supervision of the group *Applications (APP)* of ACO.

Jutta Fitzek and Christian Hillbricht (both of group *APP*) are the coordinators.

Arthur Halama of the group *Application Support (APS)* of ACC is **Product Owner**.







Potiboard Project Plan

	Description	Comment	Date
1.	Review	Status and Planning	17th-21th June
2.	Functional and Integration Test	Dry-Run July 2024	15th-19th July
3.	Review	Status and Planning	Begin of Sept.
4.	Review	Status and Planning	Begin of Oct.
5.	Functional and Integration Test for Emergency System	Dry-Run October 2024	22 nd - 25 th October
6.	Meeting für weiteres Vorgehen Richtung Vollausbau		Nov. 2024
	Tricitarig Volidasbaa		

Status: Milestone Emergency System (1)

Compulsary lists of requirements (uncomplete):

- Potiboard-Encoder-Device:
 - Two equal devices should be ready for Emergency System
 - Total of 8 rotary encoders should be in one line
 - A light should indicate the connection status (?)
 - A Left and Right Button to change (selected magnets) on beam line
 - Two Buttons to decrease/increase Increment







Status: Milestone Emergency System (2)









Milestone Emergency System (3)

Compulsary lists of requirements (uncomplete):

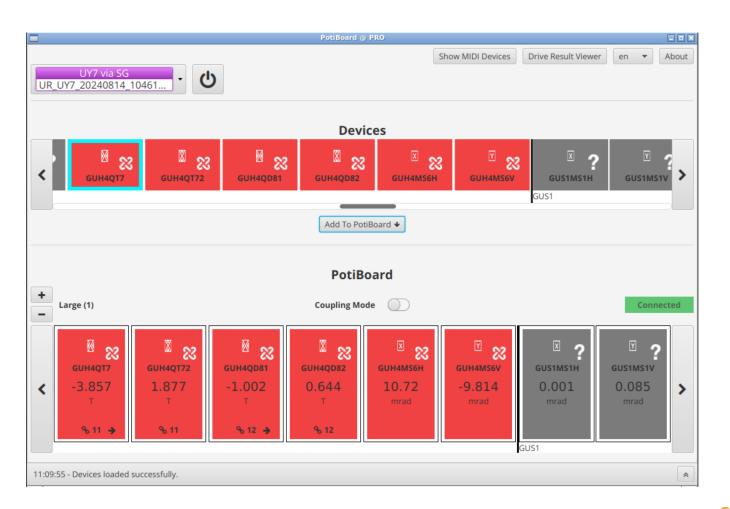
- PotiboardApp Application:
 - Context Selection Widget
 - Pictogram-View (horizontal row) of all magnets in chain (for selection)
 - Filter function
 - Second horizontal row with icon list representing selected magnets
 - A Left and Right Button to change (selected magnets) on beam line
 - Two Buttons to decrease/increase Increment
 - Sleep Button (block all input)
 - Coupling Switch (Master Mode)







Milestone Emergency System (4)



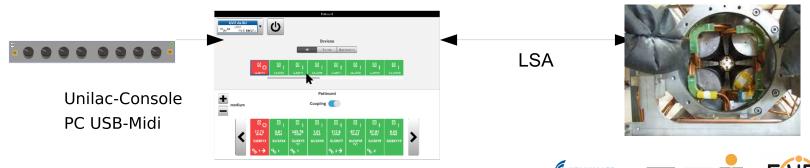




Test during Dry-Run October 2024

Functional Test

- Bug Resolution: The correct rotary encoder signals should be transmitted. Sometimes signals drop out or are with oposite signs.
- Bug Resolution: Buttons still tend to bounce and pass their signal more than once.
- Integration Test
 - *Set Unilac magnets of different tyes (MU, MS, QT, QQ) from the Potiboard-Encoder-Device via the PotiboardApp Application.
 - Check how well humans adapt setting the magnets via the LSA parameters forseen for the potiboard operation (focal strength and angle).





Potiboard Project Plan

	Description	Comment	Date
1.	Review	Status and Planning	17th-21th June
2.	Functional and Integration Test	Dry-Run July 2024	15th-19th July
3.	Review	Status and Planning	Begin of Sept.
4.	Review	Status and Planning	Begin of Oct.
5.	Functional and Integration Test for Emergency System	Dry-Run October 2024	22 nd - 25 th October
6.	Meeting für weiteres Vorgehen Richtung Vollausbau		Nov. 2024
	Tricitarig Volidasbaa		

Perspective Emergency System

