



Contribution ID: 128

Type: **Oral presentations**

## Teaching vignettes for working with Arduino in science teacher education

*Tuesday 27 August 2024 15:30 (20 minutes)*

We developed and researched a course focusing on preparing teacher students for working with Arduino. Based on theoretical foundations and empirical findings, teaching vignettes for reflecting on teaching and learning with Arduino were implemented into the course. The course design was implemented with 13 mathematics and science secondary teacher students in the winter semester of 2022/23. A mixed-methods approach was employed to investigate learning processes of the teacher students. The results show that the course design incorporating teaching vignettes offers teacher students opportunities to experience and reflect teaching and learning with Arduino from both a learner's and a teacher's perspective.

### How would you like to present your contribution?

Live in Kraków (time slot to be allotted based on the programme)

### Target education level

University

### Category

Formal Education

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**Session Classification:** Oral presentations

**Track Classification:** Multimedia, AR, VR and AI in Physics Education