



Contribution ID: 8    Type: **Practice-focused presentation (25 minutes)** 実践報告発表 (25分)

## Project-based English learning activities based on IoT and Arduino for Japanese Engineering students

*Saturday 3 February 2024 13:35 (25 minutes)*

Global companies in Japan require students to possess both 21st-century skills and basic English skills. This practice-focused presentation will show how English can be integrated into IoT education for Computer Science and engineering students in a Japanese university.

Project-based learning or CLIL approaches are increasingly popular in Japan.

This presentation will describe how students from the IoT club were encouraged to build a self-driving car and work on personal projects by learning how to use Arduino microcontrollers and consult English language documentation.

There is hope that this type of activities will be replicated in other universities and be extended to other departments and topics.

The club activities took place in the second semester of 2023 and were attended by a small core of students who documented their learning experience for a local cable TV show.

Additionally, this presentation will describe how a foreign teacher and two Japanese teachers collaborated to ease the students into working in English.

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**Session Classification:** Presentations A

**Track Classification:** General TEFL