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A new Advanced Learning Platform for Analog Circuits and Automation for hybrid electronic practicals

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The COVID-19 lockdowns forced a hybrid form for our electronic lab course. To keep the necessary hands-on experience, we developed the Advanced Learning Platform for Analog Circuits and Automation (ALPACA). This ALPACA platform works either with Arduino or the Raspberry Pi Pico, the latter controlled within our desired language Python. The ALPACA was successfully used for at-home practicals; student evaluations were overall more positive than previous years. As student' motivation improved whilst the grades remained comparable, we continue the use of the ALPACA in the non-COVID era.

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