



Certificate of Participation

This is to certify that:

Zakaria Alili

Participated in the "The 2nd International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE2025)" held from December 10-11, 2025, at University of M'Sila, Algeria" with a presentation entitled:

Sensorless BLDC Motor Control via Observer: Comparative PI Tuning with EO and GWO Using DSP-launchpad for PIL Validation

Co-authors: Ismail Chadban, Riad Bouzidi, Abdelmoumen Ghilani, Ahmed Marouane Ghoudbane, Assam Zorig.



December 10-11, 2025, at University of M'Sila, Algeria
<https://media.univ-msila.dz/ICATEEE25/>



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General Chair