



IEEE 4th International Conference on Computing and Machine
Intelligence
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Central Michigan University

CERTIFICATE

of Participation

This certificate is presented to
Mustafa Bashar

For participating and presenting the
paper titled:

Malware Detection in Internet of Things Devices
Through the Utilization of Deep Sparse
Autoencoders and Signal Processing Methods

A handwritten signature in blue ink, appearing to be "Ah".

General Chair
Ahmed Abdelgawad, PhD