



CERTIFICATE OF COMPLETION

This is to certify

Mohammad Samadi Gharajeh

has completed

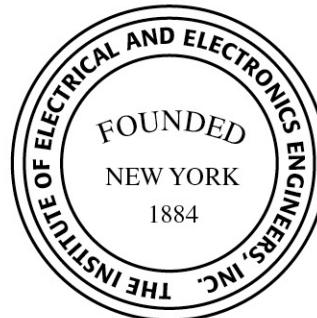
Problems in Big Data: Understanding Cities through Data Analytics and Embedded Systems

28 November, 2017

1 Professional Development Hours

A handwritten signature in blue ink that reads "S. K. Rameh".

Vice President, IEEE Educational Activities



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