Certified for

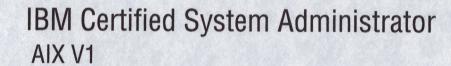
Systems



In recognition of the commitment to achieve professional excellence, this certifies that

Ali Hadji Karimi

has successfully completed the program requirements as an



August 1, 2016

/m /lan

Thomas Rosamilia Senior Vice President IBM Systems and Technology Group

Thomas I Senior Vi