



CERTIFICATE *of* ACHIEVEMENT



Alan V. Oppenheim

Professor, Department of Electrical Engineering and
Computer Science
Massachusetts Institute of Technology

Thomas A. Baran

MITx Fellow
Massachusetts Institute of Technology

Sanjay Sarma

Dean of Digital Learning
Massachusetts Institute of Technology

This is to certify that

Joao Paulo Druzina Massignan

successfully completed and received a passing grade in

6.341x: Discrete-Time Signal Processing

a course of study offered by MITx, an online learning
initiative of The Massachusetts Institute of Technology through edX.

VERIFIED CERTIFICATE
Issued June 03, 2015

Verify the authenticity of this certificate at
<https://verify.edx.org/cert/c23643cb57cd47baa00e025d2b96e6df>