

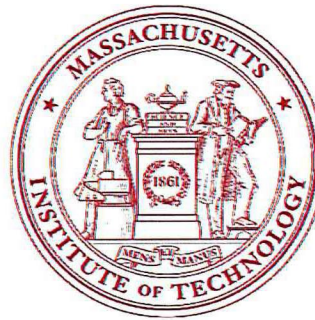


PROFESSIONAL EDUCATION



This is to certify that

Thomas Alois Popp



has successfully completed

Principles and Models for System Architecture

on the MIT Campus in Cambridge, MA — July 16-20, 2018

A handwritten signature in black ink, reading 'Ed Crawley'.

*Professor Edward Crawley
Course Director
Massachusetts Institute of Technology*

A handwritten signature in black ink, reading 'Bhaskar Pant'.

*Bhaskar Pant
Executive Director
MIT Professional Education*