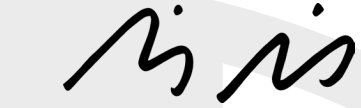
CERTIFICATE of ACHIEVEMENT



Gregor Kiczales
Professor, Department of Computer Science
The University of British Columbia

This is to certify that

Richard Carvalho Marberger

successfully completed and received a passing grade in

SPD1x: Systematic Program Design - Part 1: The Core Method

a course of study offered by UBCx, an online learning initiative of The University of British Columbia through edX.

VERIFIED CERTIFICATE
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