



CERTIFICATE
Issued July 1, 2013

This is to certify that

Ryan MacDonald

successfully completed

8.02x: Physics II (Electricity and Magnetism)

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

A handwritten signature in black ink, reading "Walter Lewin", positioned above a horizontal line.

Walter Lewin
Professor of Physics, Emeritus
Massachusetts Institute of Technology

HONOR CODE CERTIFICATE

*Authenticity of this certificate can be verified at <https://verify.edx.org/cert/00be42daa9b746a1a9d18e16bcf0e78d>