



University of Colorado  
Boulder

May 23, 2023

**VIGNESH THANIGAIVEL**

has successfully completed

**Transistor - Field Effect Transistor and Bipolar  
Junction Transistor**

an online non-credit course authorized by University of Colorado Boulder and offered  
through Coursera

A handwritten signature in black ink, reading 'Wounghang Park'.

Dr. Wounghang Park  
Professor  
Electrical, Computer, and Energy Engineering  
University of Colorado Boulder

**COURSE  
CERTIFICATE**



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their participation in the course.