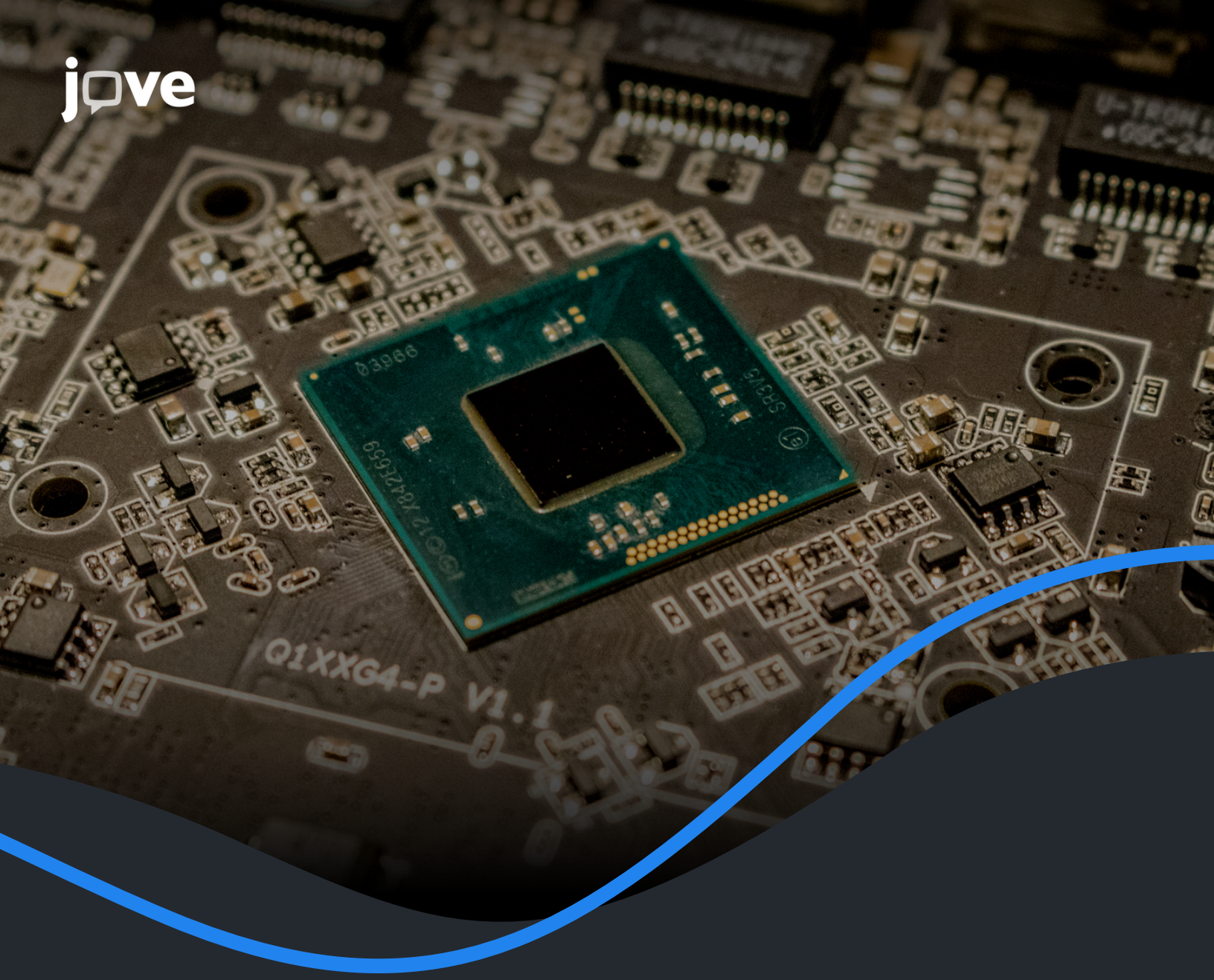


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# ELECTRICAL ENGINEERING

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# ELECTRICAL ENGINEERING

**4**
Topics

**400+**
Lessons

**126**
Scientist-In-Action Videos

## Core Learning Objectives

- Understand charge, current, voltage, Ohm's Law, and circuit elements.
- Apply nodal and mesh analysis, source transformation, and theorems.
- Analyze op-amp configurations, integrators, differentiators, and instrumentation amplifiers.
- Explain capacitors, inductors, energy storage, and configurations.
- Solve first-order RC, RL, second-order RLC circuits, and responses.
- Analyze AC circuits using phasors, Kirchhoff's Laws, and theorems.

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# ELECTRICAL ENGINEERING

01

## JoVE Core: Electrical Engineering

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# 02 JoVE Core: Physics

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# ELECTRICAL ENGINEERING



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