

Power Electronics Lab

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Abstract: Power electronics is a fundamental tool in modern society. Its capabilities are rapidly growing in the electrical engineering field, so it would only make sense to implement a university learning style laboratory where students will tremendously benefit from participating. The goal of this lab is to teach students the essential principles of power electronics. Power electronics ranges from applications of circuit theory, control theory, electromagnetics, and microprocessors (for control). Students will ultimately benefit from enrolling in a course dealing with power electronics because companies are turning their heads more towards alternative energy sources and the efficiency of the electrical devices used to sustain them.

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