University Eng. Project: Multi-Function Bench Power Supply

This project was to design & build a prototype for a marketable electronics product during the 2nd year at university. The chosen project, named "Multi-Function Bench Power Supply" was a concept for a four-in-one bench device for use in laboratory environments. This ambitious project and all supporting documentation was completed in under 7 months.

The four main aspects of the project were designed individually:

- Multi-Rail Regulated Power Supply
- Universal Function Generator
- Dedicated High Precision DC Voltmeter
- Resistance / Capacitance Substitution with unique Parallel Change-over.

The simplistic design of each major feature of this project makes it a cost-effective & space saving supplementary solution for essential bench laboratory equipment. Although originally aimed at students due to its low-cost design, this Multi-Function Bench Power Supply offers some competitive features that would normally only be seen on expensive bench equipment used by professionals. See the full project report for more details.

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The project was completed in March 2012.