This report details the implementation process and decisions made for the design of a Linear Compressor Controller (LCC). As consulted by our client, Fisher & Paykel Appliances Ltd, Electrical Engineering Design Incorporated (EED Inc.) has designed an efficient means of controlling the Linear Compressor motor, used for compressing refrigerant fluids of refrigeration heat exchangers.

A range of requirements have been specified by Fisher & Paykel. Consequently, the designed LCC has been designed to operate within a DC Voltage of , and within ambient temperatures of 0oC and 60oC. Fisher & Paykel also presented the need for a PC to LCC communication interface for power control and error reporting. Additional technical specifications and the extensions of

**FPA = Fisher and Paykel Appliances**

**Refer to client presentation for specific details**

Optimise controller functionality to satisfy every increasing energy efficiency requirements of the markets Fisher & Paykel offer their products to …. **See client presentation**