RainDance Sprinkler Controller

This controller will replace the existing broken Intermatic electromechanical sprinkler clock system (240 VAC) using off the shelf electrical components.

A clear box with a clear cover

Description automatically generatedA close-up of a toggle switch

Description automatically generatedA black electronic device with green connectors

Description automatically generatedA blue and green electronic device

Description automatically generated

# Hardware Design

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| A diagram of a circuit board  Description automatically generated |

Power originate from the 240VAC house circuit. A switching power supply makes 5VDC available to the Arduino and relay.

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# Software Design

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# Irrigation Pump

# The pump is a Pentair Flotec FP5172 1.5 HP Thermoplastic Sprinkler Pump

(<https://www.pentair.com/en-us/products/residential/water-supply-disposal/water-supply-pumps/pentair-flotec-fp5172-thermoplastic-sprinkler-pump-1-5-hp.html>).

Nameplate Values: 1½ HP; 230 VAC; 9.95A; 1 PH; 60 Hz; 3450RPM

# This is a heading