



"Embedding thoughts into Technology"

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Food Processor

Client:

India based company.

Requirement:

To Design and develop the Embedded Controller for Food (Medu Vada) processing system. The Food processing machine shall provide a user-friendly interface for customers to assist them in selecting the type of vada, quantity and set the frying parameters. It is intended to have a controlling interface (GUI) with multimedia features and embedded controller to control the actual mechanical structure. An embedded microcontroller and an I/O controller capable of controlling 15 I/O and temperature sensor module are required.

Solution:Embin team has designed and developed a 32-bit ARM922TDMI RISC microprocessor with 6.4" TFT LCD display based control system and ported Embedded Linux (RTOS) to aid in the interface between the GUI and Controlling system. Embin has designed and developed the GUI using Linux libraries and an 8 bit 8051-core microcontroller based controller, to control the mechanical assembly.

Tools/Platforms:

- » Controller - 32bit ARM720T
- » LCD display - 640 x 480 TFT Sharp LCD
- » Xfree86
- » Matchbox window manager
- » FLTK toolkit