PRAVEEN V.P

Address: Vattaparambil House, Manalur Post, Palazhy, Thrissur – 680617, Kerala.
Mobile: +91-9745639305
E-Mail: praveen_v.p@outlook.com
Blog: http://vppraveen.wordpress.com
Source Code: https://github.com/praveen-vp

Summary

Education : Govt. Engineering College, Palakkad, Kerala.
B. Tech in Electronics and Communication Engineering,
2009 -2013 Batch.

Technical skills

Languages : C, Exposure to Python.
Debuggers : GDB.
Linux : Programming with system calls.
Version control : git

Electronics circuit simulation, PCB designing .

On-line Courses

- Participated in 'Embedded systems-Shape the world' using Texas Tiva launchpad, from university of Texas (edX). The objective of the course was to teach some key ideas, how an embedded systems behaves according to the inputs from the real world, and C language programing for low memory microprocessors. I have written a course review here:
  http://vppraveen.wordpress.com/2014/05/23ut-6-01x-embedded-systems-shape-the-world-course-review/

Other Learning Activities

Reading K&R and working out the exercises in each chapter:
https://github.com/praveen-vp/K-and-R-solutions

Learning basic linked list / tree manipulation in C by working out the exercises in the Stanford CS library (http://cslibrary.stanford.edu/):
https://github.com/praveen-vp/linkedlist , https://github.com/praveen-vp/Binary-Tree

Learning the Linux system call interface by implementing a handful of basic Linux commands (including xargs, tee, recursive listing etc):
https://github.com/praveen-vp/System-calls

Implemented a tiny shell using fork/exec/dup/pipe:
https://github.com/praveen-vp/Small-shell

Experimented with ptrace system call.
https://github.com/praveen-vp/Ptrace

Implemented a simple chat program using C and python.
https://github.com/praveen-vp/Chat_program

Toy HTTP Server using C and python.
https://github.com/praveen-vp/Toy_http-_server_C-Python

A simple simple duplex chat program, echo server using UDP .

https://github.com/praveen-vp/Networking-using-C

Balanced BST example - AVL tree.

https://github.com/praveen-vp/Balanced_Tree-AVL_Tree

Course Projects

Mini Project : Automatic College Bell

Automatic college bell is pic-16f877a based system. The key part other than pic controller is the ds1307 real time clock, which provide accurate time for the coming 100 years. The system provides precise alarms in the intervals. The system also provides a provision for the stopwatch. Once the time is set it will provide alarms thereafter with no alarm on weekends.

Main Project : Multi Channel Temperature Sensing And Data Acquisition System

This is a NTC based temperature monitoring system, which can monitor the temperature through 16 different channels and stores the temperature data, Which is build on pic-18F87j50 micro controller platform. This device is connected to the computer through usb to communicate with the controlling program.