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Links and resources for Embedded Systems (SW, HW)

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Latest commit 6283e2c on 21 May 2018

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Programming Languages

C++

- 1000+ Multiple Choice Questions & Answers in C++ with explanations
- 200 C++ interview questions and answers
- 24 Essential C++ Interview Questions from top 3% developers company
- C++ Interview Questions and Answers for Freshers and Experienced developers
- C++ Interview Questions from GeekInterview
- C++ Programming Q&A and quizzes from computer science portal for geeks
- C++ Programming Questions and Answers related to such topics as OOPs concepts, Object and Classes, Functions, Constructors and Destructors, Inheritance and etc
- LeetCode Problems' Solutions written in C++
- 25 Fundamental C++ Interview Questions
- C++ Complete Course
- C++ Programming Language
- C++ Excercises and Solutions
- Online C++ Programming Test
- Firmware Developer
- Advanced C++ Techniques Explained
- Tips and Tricks of the C++ Professionals

C

- 1000+ Multiple Choice Questions & Answers in C with explanations
- C interview questions & answers
- 165 C interview questions
- Basic C language technical frequently asked interview questions and answers It includes data structures, pointers interview questions and answers for experienced
- C Programming Interview Questions and Answers for such topics as Bits and Bytes, Preprocessors, Functions, Strings, Language basics and etc
- C Programming Interview Questions have been designed specially to get you acquainted with the nature of questions you may encounter during your interview for the subject of C Programming
- First set of commonly asked C programming interview questions from computer science portal for geeks
- Second set of commonly asked C programming interview questions from computer science portal for geeks
- Basics of Embedded C Program and Programming Structure for Beginners
- Embedded C Interview Questions and Answers
- C Programming Language Tutorial
- C Programming Language
- Programming Skills
- Online C Programming Test
- C Tutorial
- Advance C programs - Solved C language programming examples

Python

- 50 Python interview questions and answers
- 11 Essential Python Interview Questions from top 3% developers company
- A listing of questions that could potentially be asked for a python job listing
- Interview Questions for both beginners and experts
- Interview Cake Python Interview Questions
- Python Frequently Asked Questions (Programming)
- Python interview questions collected by Reddit users
- Python Interview Questions from questionscompiled
- Top 25 Python Interview Questions from Career Guru

Golang

- Solutions for Elements of Programming Interviews problems written in Golang
- Solutions for some basic coding interview tasks written in Go
- Top 20 GO Programming Interview Questions for both freshers and experienced developers

OOP

- The Complete Guide to UML Diagram Types with Examples
- UML Class Diagram Explained With C++ samples
- Bridge, Strategy, Adapter

Algorithms

Bit manipulation

Linked list

OS

Linux

- Embedded Linux for Serious Products
- 1000+ Multiple Choice Questions & Answers in Linux with explanations
- 10 Job Interview Questions for Linux System Administrators from Linux.com
- 10 Useful Random Linux Interview Questions and Answers
- 11 Basic Linux Interview Questions and Answers
- 11 Essential Linux Interview Questions from top 3% developers company
- Some basic Linux questions from ComputerNetworkingNotes.com
- Top 30 Linux System Admin Interview Questions & Answers
- Top 50 Linux Interview Questions from Career Guru
- Linux System Administrator/DevOps Interview Questions

RTOS

- Embedded and Communication Technologies Discussion Handbook
- RTOS Real time operating system interview questions
- 50 Real Time RTOS Interview Questions and Answers
- Interrupt Handling in Embedded Software
- µOS++ Ille - Basic Concepts
- Real-Time Systems Concepts
- RTOS Fundamentals
- RTOS Concepts
- General RTOS Concepts
- Preemptive vs. Cooperative Multitasking

Platforms

Raspberry Pi

- Exploring Raspberry Pi

Beagle Board

- Exploring Beaglebone

ARM Cortex-M

Arduino

ESP8266 Wifi

Product Domains

Automotive

- CAN protocol tutorial
- CAN Bit Time Calculation
- CANPie
- Automotive Basics
- CAN Interview Questions
- Let's talk about cars
- Free and Open Source Engine Management System
- GPS Tracking Software - Free and Open Source System - Traccar
- OpenXC Vehicle Interface Firmware
- OpenGTS - Open GPS Tracking System
- Hacking Volvo
- The OpenXC Platform
- IntrePID Control Systems

Home Automation

- Calaos, Open Source Home Automation
- Domoticz
- Mister House
- Openmotics
- OpenHAB
- Smart Home Automation for the Raspberry Pi
- Home Assistant
- AlertR
- DIY Home Alarm System
- EventGhost
- ioBroker
- Jeeedom
- Linux MCE Home Automation
- OpenNetHome
- Smarthomatic
- Freedomatic - Open IoT Framework
- FHEM
- MajorDomio
- My Controller
- Open Lighting Architecture

Industrial Automation

- Open Industrial Linux
- Open Source IPC based on Raspberry Pi
- UniPi
- netPi
- The OpenPLC Project
- Controllino
- Industruino
- OpenAPC - Open Source Advanced Process Control
- OpenXHC
- Fossee
- emBrick
- Free Modbus
- CANFestival
- JBrady

Internet Of Things

- Cloud4RPI
- Adrian - Open Source Virtual Assitant for Pi
- Mycroft AI

Linux Gateway Router

- OpenWrt
- pfSense

Telephony

- Open-source VoIP

Robotics

- Robot Operating System
- Dexter Industries
- ODrive
- Orocos
- Rock

Opensource/Linux Storage

- FreeNAS
- Rockstor
- Helios
- NAS4Free