

COMPUTER NETWORKING INTERVIEW QUESTIONS AND ANSWERS

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What is the TCP interview answer? TCP (Transmission Control Protocol) is a connection-oriented protocol, meaning that it requires an active connection between two devices in order to transfer data. This connection is established through a three-way handshake, which involves the two devices exchanging a series of messages to confirm the connection.

What is computer network question and answer? Computer networking refers to interconnected computing devices that can exchange data and share resources with each other. These networked devices use a system of rules, called communications protocols, to transmit information over physical or wireless technologies.

How to answer networking questions?

Is computer network asked in an interview? Computer networking is the most often asked question at leading organizations such as Cisco, Accenture, Uber, Airbnb, Google, Nvidia, Amazon, and many others. To get into these and other IT product-based companies, you must master these Networking Interview questions and pass their interview rounds.

What is TCP and UDP? The main difference between TCP (transmission control protocol) and UDP (user datagram protocol) is that TCP is a connection-based protocol and UDP is connectionless. While TCP is more reliable, it transfers data more slowly. UDP is less reliable but works more quickly.

What is DHCP interview answer? Sample answer: 'A DHCP scope defines the range of possible IP addresses that the server can assign to clients. There are two of these, namely a multicast scope and a superscope. A multicast scope assigns IP address ranges for a Class D network, so it does not have subnet masks, other TCP/IP options or reservations.

What is VLAN in networking? VLAN Definition A virtual local area network (VLAN) is a virtualized connection that connects multiple devices and network nodes from different LANs into one logical network.

What is the difference between LAN and WAN? LAN means local area network. WAN means wide area network. LANs connect users and applications in close geographical proximity (same building). WANs connect users and applications in geographically dispersed locations (across the globe).

What is a LAN subnet? Physical Subnet. A subnet represents all of the devices within a LAN, including all client, server, and host computers within that group. One benefit of creating a subnet is that it allows different computer groups to be connected to the Internet using a single shared public IP address.

What is TCP short answer? What is TCP? Transmission Control Protocol (TCP) is a communications standard that enables application programs and computing devices to exchange messages over a network.

What is the TCP/IP answer? What does TCP/IP stand for? TCP/IP stands for Transmission Control Protocol/Internet Protocol. TCP/IP is a set of standardized rules that allow computers to communicate on a network such as the internet.

What does TCP stand for answer? Transmission Control Protocol (TCP)

What is the TCP IP reference model answer? The TCP/IP model is a four-layer model that divides network communications into four distinct categories or layers. The model is often referred to as the TCP/IP stack. The four important layers are the application layer, the transport layer, the network layer, and the link layer.

What is the oldest engineering drawing? Drafting and design have a long history starting, as far as we can see, around 2,000 B.C. The first evidence of drafting came

from this period in the form of a drawn aerial view of a castle in Babylon.

What is engineering drawing 1? An engineering drawing is a type of technical drawing that is used to convey information about an object. A common use is to specify the geometry necessary for the construction of a component and is called a detail drawing. Usually, a number of drawings are necessary to completely specify even a simple component.

What do the 3 blocks on an engineering drawing signify? Blocks of Information. The information included in these blocks is crucial to the assembly. They are frequently seen at the drawing's bottom right-hand corner. These blocks define what the drawing is for, who it is for, the component number and description, and material and finish information.

How many types of drawing are there in engineering drawing? Engineering drawings are typically of two kinds: part drawing and assembly drawing. The part drawing shows the dimensions of individual parts (a bracket, an extrusion, a tube, a bent aluminum sheet, etc.), while the assembly drawing shows how these are to be attached in relation to each other.

What is the hardest technical drawing? Descriptive Geometry is notorious for being the hardest of all technical drawing types. However, you can understand it and master it with enough practice.

What did engineers use before CAD? Before the advent of AutoCAD and other drafting software, the engineering drawings were made on the sheet of papers using drawing boards.

Is engineering drawing hard? Engineering drawing may be about technical drawings but it is one of the toughest subjects, ask any engineering student and you will know.

Who is the father of engineering drawing? Gaspard Monge created a large-scale plan of a town using his own methods of observation and instruments that he designed. As a result, authorities commissioned Gaspard as a drafter and pupil in the practical school of the military institution.

Who invented engineering drawing? The technical Engineering Drawing have existed since the ancient times. The strong traces of engineering drawings are also found in the literature of Leonardo da Vinci. Gaspard Monge is frequently considered the "father of descriptive geometry".

What is the M symbol in engineering drawing? "M" stands for "maximum material condition." This symbol indicates the application of maximum material condition.

What is a F in engineering drawing? AF. across flats. Commonly used when measuring the flat surfaces of a hex drive, such as a hex nut.

What letters are not used in drafting? 35 standards for tracking changes with engineering drawings. Also stated in these standards, all letters in the alphabet can be used for revisions, except I, O, Q, S, X, and Z, as these can be mistaken for numbers. The letters are to be used in an uppercase format.

How to study engineering drawing easily?

What is the triangle symbol in engineering drawing? The surface roughness on a drawing is represented by inverted triangles. The basic symbol consists of two legs of unequal length inclined at approximately 60° to the line representing the considered surface. The symbol must be represented by a thin line. The value of roughness is added to the symbols.

What are engineering drawings called? Engineering drawings are also called technical drawings, prints, blueprints or schematics. Engineers used to make these drawings by hand, but now they make drawings on CAD software.

What is the hardest pencil used in engineering drawing? 9H is the hardest, and 7B is the softest. Engineering drawings can be constructed with two or three hardness grades (4H, F and B). Pencils and pencil leads are available in a variety of hardness levels. A hard pencil is used to lay out light lines that are not intended to be seen by the reader.

Is technical drawing obsolete? Technical drawings are the backbone of the engineering industry, even if they aren't used as the main source of drafting and designing anymore. With CAD software, some might consider technical drawings

outdated and useless. That's not the case, however. These drawings are still very important.

What is the easiest drawing ever?

Who is the father of technical drawing? Gaspard Monge, Comte de Péluse was a French mathematician, commonly presented as the inventor of descriptive geometry, technical drawing, and the father of differential geometry.

What did CAD replace? Used by engineers, architects, and construction managers, CAD has replaced manual drafting in many places. It helps users create designs both 2D and 3D designs to better visualize construction. CAD enables the development, modification, and optimization of the design process.

What CAD software do most engineers use? AutoCAD. AutoCAD, which was made by Autodesk, has a long history as one of the first CAD platforms. It is widely used in many fields, especially architecture, engineering, and construction, because it is flexible, can do both 2D and 3D modelling, and has a huge selection of industry-specific tools.

Can I be an engineer if I'm bad at drawing? You'll have no need to be an artist and make realistic looking pencil sketches. To make engineering drawings you'll use CAD, like AutoCAD or other 2D and 3D software. It's useful to be able to make quick hand sketches to communicate ideas, but they don't have to be artistic.

What are the cons of engineering drawings? Disadvantages of engineering drawings include: Complexity: Engineering drawings can be very complex, with a lot of information packed into a small space. This can make them difficult to read and interpret. Cost: Producing accurate engineering drawings can be time-consuming and expensive, especially for complex designs.

How can I be perfect in engineering drawing?

Do engineers own their drawings? First, as we noted in Case 67-3 that as a general rule, in the absence of a contractual provision to the contrary, the drawings, plans, and specifications prepared by an engineer for a client are the property of the client.

Who is the godfather of engineer? In India, September 15 is observed as National Engineer's Day. This day commemorates the birth of the first engineer Sir Mokshagundam Visvesvaraya, also known as the Father of Engineering. The general celebration offers recognition to all the civil engineers for their contributions to the nation's development.

Why do engineers make sketches? Engineering drawings are used to communicate design concepts and design intent using a standardized pictorial language comprised of lines, shapes, and symbols. They are sophisticated technical drawings that provide details on the geometry, dimensions, materials, and tolerances of an object.

What is the most oldest engineering? Civil engineering is the oldest form of engineering and one of the earliest professions. It came into being due to one of the basic human needs i.e. the need for shelter. The earliest forms of shelter were caves and trees but as man progressed, he built shelters of clay, stone and wood to suit his needs.

What is the oldest construction drawing? Architects drew up highly precise plans of vast stone-walled hunting traps 9000 years ago, representing the oldest known architectural plans to scale in human history.

What is the oldest form of drawing? The earliest human drawing, dating back to the Stone Age, has been found in a cave in South Africa. It is a cross-hatched pattern and was drawn with a red ochre crayon. A team of scientists from Norway, South Africa, Switzerland and France found that the pattern had been intentionally drawn onto silcrete stone.

What is the oldest engineering category? 1. Civil Engineering. Often thought to be the oldest engineering discipline, civil engineering focuses on constructing, designing, and maintaining physical structures used by the public, such as dams, bridges, tunnels, roads, airports, subway systems, and water supply systems.

What is the hardest engineering? The top 5 most difficult engineering courses in the world are nuclear engineering, chemical engineering, aerospace engineering, biomedical engineering and civil engineering.

Which engineering is the richest?

Who is the greatest engineer of all time? Nikola Tesla— The inventor, creator, electrical engineer and mechanical engineer was an inventor way beyond his times with his futuristic innovations. The engineer invented the induction motor, fluorescent lighting and Tesla coil, all important inventions still in use today.

What is the oldest city in the world? Jerico, West Bank - 11000 years old Situated in the Palestinian territories, this place stands as a formidable candidate for the world's oldest continuously inhabited settlement, tracing its origins back to approximately 9,000 BC, as per Ancient History Encyclopedia.

What is the oldest place on Earth? Dating to around 3.6 billion years ago, the Pilbara region of Western Australia is home to the fossilised evidence of the Earth's oldest lifeforms.

What is the oldest wooden structure still standing? As discussed above, ??? (Horyuji) was built in 607 AD and is world's oldest surviving wooden structure. It was constructed using ? (hinoki, Japanese cypress) that were roughly 2,000 years old. As the temple is 1,300 years old, it's also been 1,300 years since the timber was cut down, but it still stands firm.

Why did humans live in caves? Starting about 170,000 years ago, some Homo sapiens lived in some cave systems in what is now South Africa, such as Pinnacle Point and Diepkloof Rock Shelter. The stable temperatures of caves provided a cool habitat in summers and a warm, dry shelter in the winter.

What is the oldest depiction of a human being? The six-centimeter-tall Venus of Hohle Fels is among the sculptures uncovered. The mammoth ivory figurine is the oldest known depiction of a human being.

What is the oldest drawing of a woman? Most date to the Gravettian period of the Homo sapiens occupation of Europe, between 26,000 and 21,000 years ago, but the oldest, found in Germany, may be more than 35,000 years old. This photograph shows the famous Venus of Willendorf from Austria, which was carved in stone about 30,000 years ago.

What is the toughest branch of engineering in the world? Electrical engineering, chemical engineering, biomedical engineering, aerospace engineering, and computer engineering are considered the toughest branch in engineering.

What engineer makes the most money?

Who is the father of all engineering? In India, September 15 is observed as National Engineer's Day. This day commemorates the birth of the first engineer Sir Mokshagundam Visvesvaraya, also known as the Father of Engineering. The general celebration offers recognition to all the civil engineers for their contributions to the nation's development.

How to use ArduPilot with Arduino?

What programming language does ArduPilot use? The main flight code for ArduPilot is written in C++. Support tools are written in a variety of languages, most commonly in python.

What is the difference between Arduino and ArduPilot? Arduino is a general purpose microcontroller board that is typically used for creating simple electronic projects. It allows for quick prototyping of hardware projects. Ardupilot, on the other hand, is an open-source autopilot system that is specifically designed for unmanned vehicles, including drones.

How to make a RC drone with Arduino?

Can Raspberry Pi run ArduPilot? The autopilot's code works directly on Raspberry Pi. For ArduPilot to work properly please use the configured Raspbian distribution that we provide.

Can you use ArduPilot without GPS? Non-GPS navigation is available for all vehicles. However, it is not applicable to fast or high flying vehicles such as conventional Planes.

What is difference between Pixhawk and ArduPilot? PX4 operates under the BSD license, so any changes made to the code does not need to be pushed to the main branch. While ArduPilot operates under the GPL license, where any changes

made to the source code are required to be pushed back to the master branch.

How many lines of code are in ArduPilot? The ArduPilot code base is quite large (about 700k lines for the core ardupilot git tree) and can be quite intimidating to a new user.

What is the difference between ArduCopter and ArduPilot? The name comes from the Arduino Mega, since it used the same processor. Arducopter is the part of the software which can control copters and helicopters. Ardupilot is the overall term while there is ArduCopter for Copters, ArduPlane for Planes, ArduRover for Rovers, etc...

What are the limitations of ArduPilot? The ArduPilot firmware in some configurations exceeds 1 MB in size. Some autopilots may not have enough flash memory to store the full firmware. For the affected autopilots, a reduced firmware is generated. This firmware omits less-commonly used features in order to reduce the firmware size to less than 1 MB.

How much does ArduPilot cost? There is no cost to use, or contribute to, any software provided by ArduPilot.

Which is better INAV or ArduPilot? Ardupilot is unparalleled in operating rovers and boats, with comprehensive features and capabilities. INAV can handle most of these tasks but lacks some advanced features.

Which Arduino is best for drones? There are tiny Arduino development boards that fit this purpose, such as the Arduino Nano. That said, the Arduino Uno and Arduino Mega are also portable enough to be part of a DIY drone design. You could even go one step further and design your own printed circuit boards for the control system.

Why use Arduino instead of Raspberry Pi? Arduino works well for home automation, robotics, and control systems. Raspberry Pi, on the other hand, is best for larger projects that need better processing capacity, like data analysis, AI, computer vision, etc. Which project is better suited for Arduino, and which is better suited for Raspberry Pi?

Can you control a RC car with Arduino? Introduction: Autonomous Control of RC Car Using Arduino You can program the controller to make the car do any number of driving patterns and stunts. Once you have the car being controlled from the on-board controller, you can add sensors for light and sound and make the car do things like line following.

What do I need for ArduPilot?

How to connect Arduino to ArduPilot? Connect your APM to your USB Once this is loaded, click on the ArduPilot tab, and select ArduPilot mega 2. x out of the HAL options. Then click the “Tools” tab and select “Arduino Mega 2560 or Mega ADK” from the “Board” tab. Next select the Tools tab again, and set the “Serial Port” to the one your APM is connected to.

Is ArduPilot Arduino based? Description. Description: This is a Arduino-compatible autopilot board designed by Chris Anderson and Jordi Muñoz of DIY Drones using the new ATmega328. This board was used to win the annual autonomous vehicle competition put on by SparkFun.

Does ArduPilot need a compass? Overview. Accurately setting up the compass is critical because it is the primary source of heading information. Without an accurate heading the vehicle will not move in the correct direction in autopilot modes (i.e. AUTO, LOITER, PosHold, RTL, etc). This can lead to circling (aka “toiletbowling”) or fly-aways.

Is ArduPilot an autopilot? ArduPilot is a trusted, versatile, and open source autopilot system supporting many vehicle types: multi-copters, traditional helicopters, fixed wing aircraft, boats, submarines, rovers and more.

Does Pixhawk use ArduPilot? The 3DR UBlox GPS + Compass Module is the recommended GPS for Pixhawk on ArduPilot. The GPS ports are connected with the six-position DF13 cable, and the MAG port is connected to the I2C port with the four-position DF13 cable.

Is Pixhawk discontinued? 3DR Pixhawk 1 Flight Controller (Discontinued) ? This flight controller has been discontinued and is no longer commercially available. You can use the mRo Pixhawk as a drop-in replacement. PX4 does not manufacture this

(or any) autopilot.

How accurate is the GPS on the ArduPilot? Normal GPS accuracy is 3-5 meters using the Ublox M8N generation of GPS. If your global region has SBAS (Satellite Based Augmentation Service) with geo-synchronous satellites reporting the general propagation conditions and corrections to the GPS, then accuracy can improve to the 1 meter range.

What is the speed limit of the ArduPilot? The default is 1000 meaning 10m/s. A typical copter can reach top speeds of 10m/s ~ 13m/s (i.e. 1000 ~ 1300) before it becomes unable to both maintain altitude and horizontal speed. The vertical speeds up and down can similar be adjusted with the Speed Up (WPNAV_SPEED_UP) and Speed Dn (WPNAV_SPEED_DN) parameters.

What does APM stand for ArduPilot?

What is the main function of ArduPilot? The basic goal of the software is to provide control of the vehicle, either autonomously, or via pilot input through radio control transmitter or ground control station, or via companion computer on board the vehicle, any of which are optional, including only loading a fully autonomous mission on the vehicle for ...

What can you do with ArduPilot?

How to integrate GPS module with Arduino?

Can we use Arduino as flight controller? Introduction: DIY ARDUINO FLIGHT CONTROLLER The program is open source and easy to configure. This Flight controller will have features like those of NAZA and APM the only difference here is the PID wherein you will need to be patient in getting your drone tuned.

How to use remote controller with Arduino?

How to use Arduino as PID controller?

Can you make a GPS tracker with Arduino? In this tutorial, we wanted to push the size limits of the portable GPS tracker by using a mini GPS module called the ATGM336H. The result is a pocket-sized GPS tracker with the low-profile by pairing

the ATGM336H module with an Arduino Xiao microcontroller, SD Card Module, and 3.7V LiPo Battery.

Which Arduino library is commonly used to parse GPS data? FuGPS Library. It is a simple Arduino library for parse NMEA sentences (e.g. GPS/GLONASS/GALILEO) from serial port or any other object derived from Stream class.

How accurate is gy neo6mv2? NEO6M accuracy 2.5m CEP. It has maximum 4 GSV output lines, so you'll see at most 16 satellite signals.

Which Arduino is best for drone? There are tiny Arduino development boards that fit this purpose, such as the Arduino Nano. That said, the Arduino Uno and Arduino Mega are also portable enough to be part of a DIY drone design. You could even go one step further and design your own printed circuit boards for the control system.

Can you make a RC plane with a Arduino? The standard RC Transmitter and Receiver which will cost you around 70\$ to 80\$. Lets build one for ourselves using arduino and cheap RF modules. Considering all the required materials for electronics side and plane design side you can make a delta wing plane with your own telemetry within 50\$.

Can you control a robot with Arduino? The Control Board is the top board of the Arduino Robot, with this library you can easily write sketches to control the robot.

How to send IR signals from Arduino? Connect an IR LED to Arduino pin 3 and ground, along with an appropriate resistor, if needed. Depending on your IR emitter's power output, you may want to implement a transistor for control, though you likely won't have any issues with short IR signal bursts sent out during experimentation.

How to decode IR code? Just point the remote towards the IR receiver and press the button you have to decode the signal of. A hexadecimal value will appear on the screen , these are the IR codes you need to note which will be needed for future IR remote operated projects.

Can you use an Arduino as a controller? In this project, we use an Arduino Leonardo to take control of the keyboard on the computer. This project requires specific Arduino boards that support this emulation. When a button is pressed, a

keypress corresponding to the letter associated with the button will be sent to the computer.

Can we use Arduino instead of flight controller? You can definitely make a quadcopter with just a single Arduino board acting as a flight controller and a bunch of sensors. Yes you can use 2 Arduinos for basic flights. Just remember that you will need to simultaneously interface several Sensors and control several PWM Motors.

How to control an Arduino remotely?

Can you use an Arduino as a remote control? Combine an IoT enabled Arduino board with an infrared emitter module and some buttons to quickly build your own TV-remote. Use the Arduino IoT Cloud to automatically turn off your TV at a certain time! And it's not just limited to your TV but you can control many different devices using the infrared emitter!

Savarese OMT International Edition: Comprehensive Q&A

1. What is Savarese OMT International Edition?

Savarese OMT International Edition is a comprehensive textbook for students and practitioners in the field of Orthopaedic Manual Therapy (OMT). It is a revised and updated version of the original Savarese OMT text, with expanded content and international perspectives.

2. Who is the author of Savarese OMT International Edition?

Savarese OMT International Edition is authored by Dr. Frank Savarese, a renowned OMT educator and clinician. He is the founder and director of the Orthopaedic Manual Therapy Center in Florida and has authored numerous other textbooks and publications on OMT.

3. What are the key features of Savarese OMT International Edition?

Savarese OMT International Edition provides a thorough examination of the principles and techniques of OMT. Key features include:

- In-depth coverage of musculoskeletal examination, diagnosis, and treatment

- Clear and concise step-by-step instructions for OMT techniques
- Full-color illustrations and photographs to enhance understanding
- Case studies and clinical examples to illustrate practical applications

4. Who is the target audience for Savarese OMT International Edition?

Savarese OMT International Edition is primarily intended for students and practitioners in the field of OMT, including:

- Physical therapists
- Osteopaths
- Chiropractors
- Athletic trainers
- Other healthcare professionals interested in OMT

5. What are the benefits of using Savarese OMT International Edition?

Using Savarese OMT International Edition offers numerous benefits:

- It provides a comprehensive foundation in the principles of OMT
- It empowers practitioners to enhance their diagnostic and treatment skills
- It helps students prepare for certification examinations
- It supports ongoing professional development and continuing education
- It promotes a deeper understanding of the musculoskeletal system and its relationship to pain and dysfunction

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