

## Robotics Application Engineer Interview Questions

1. Name a time when your advice to management led to an improvement in your company or otherwise helped your employer.

2. Share an example when you successfully designed automated robotic systems to increase production volume or precision in high-throughput operations, such as automated ribonucleic acid (RNA) analysis or sorting, moving, or stacking production materials.

3. What kind of experience do you have installing, calibrating, operating, or maintaining robots?

4. Name a time when you designed robotic systems, such as automatic vehicle control, autonomous vehicles, advanced displays, advanced sensing, robotic platforms, computer vision, or telematics systems.

5. Provide an example of a time when you successfully organized a diverse group of people to accomplish a task.

6. Share an experience in which you've successfully learned how to handle a new piece of equipment?

7. Tell me how you organize, plan, and prioritize your work.

8. Share an experience when you applied new technology or information in your job. How did it help your company?

9. Give me an example of when you thought outside of the box. How did it help your employer?

10. Tell me about an experience in which you analyzed information and evaluated results to choose the best solution to a problem.

11. Would you consider analyzing data or information a strength? How so?

12. Share an example of a time you had to gather information from multiple sources. How did you determine which information was relevant?

13. Provide a time when you were able to identify a complex problem, evaluate the options, and implement a solution. How did the solution benefit your employer?

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14. Provide an example of a time when you were able to demonstrate excellent listening skills. What was the situation and outcome?

15. How would you rate your writing skills? (Ask for an example that demonstrates great writing skills.)

16. Share an experience in which you successfully coordinated with others. How about a coordination effort that was not as successful?

17. Describe a time when you successfully serviced, repaired, or tested a machine or device that operates mainly by mechanical principles.

18. Share an experience in which you oversaw the assembly, fabrication, construction, maintenance, or modification of equipment. How did you communicate to the staff what you wanted?

19. Share an experience in which your attention to detail and thoroughness had an impact on your last company.

20. What are some long-range objectives that you developed in your last job? What did you do to achieve them?

21. Provide an experience that demonstrates your ability to manage time effectively. What were the challenges and results?

22. Tell me about some of your most recent computer programming projects.

23. Provide an example of a project you worked on that demonstrates your programming abilities. What was your role in the project?

24. Share a time when you successfully used scientific rules or methods to solve a problem at work.

25. Share an example of when you went above and beyond the "call of duty". (Look for answers that show the candidate is dependable.)

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26. Provide an example of when you were persistent in the face of obstacles.

27. Tell me about a time when your ability to analyze needs and product requirements helped you create an effective design or make an informed decision to benefit your company.

28. Provide a time when you worked in a rapidly evolving workplace. How did you deal with the change? (Make sure the candidate is flexible.)

29. Share a time when you willingly took on additional responsibilities or challenges. How did you successfully meet all of the demands of these responsibilities? (Make sure the candidate is a self-starter and can demonstrate some initiative.)

30. Share an example of when you established and accomplished a goal that was personally challenging. What helped you succeed?

31. Tell me about the last time you reviewed or approved designs, calculations, or cost estimates.

32. Provide a time when you dealt calmly and effectively with a high-stress situation.

33. What is the most challenging part of supervising, technologists, technicians, or other engineers?

34. How do you balance cooperation with others and independent thinking? Share an example. (Try to determine if the candidate has a cooperative attitude or is otherwise good-natured.)

35. What factors do you consider when investigating mechanical failures or unexpected maintenance problems?

36. What have you found to be the best way to process or interpret signals or sensor data? Share an example.

37. Share an experience in which you successfully installed a difficult piece of equipment. What made the situation so difficult?

38. Tell me about a time when you developed your own way of doing things or were self-motivated to finish an important task.

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39. Describe an experience when you planned mobile robot paths and taught path plans to robots.

40. Describe a time when you successfully persuaded another person to change his/her way of thinking or behavior.

41. Share an experience in which your willingness to lead or offer an opinion helped your company.

42. Have you ever built, configured, and tested your own robot?

43. Describe methods you have found effective to analyze and evaluate robotic systems or prototypes.

44. Provide an experience in which you were sensitive to someone's needs or feelings. How did your helpfulness affect your work environment?

45. Have you ever designed software to control robotic systems for applications, such as military defense or manufacturing? If so, share an example.

46. Share your approach to conduct research into the feasibility, design, operation, or performance of robotic mechanisms, components, or systems, such as planetary rovers, multiple mobile robots, reconfigurable robots, or man-machine interactions.

47. What kind of experience do you have writing algorithms or programming code for ad hoc robotic applications?

48. Walk me through how you would conduct research on robotic technology to create new robotic systems or system capabilities.

49. Share an experience in which personal connections to coworkers or others helped you to be successful in your work. (Make sure candidate works well with others.)

50. Have you ever been part of a team that designed or programmed robotics systems for environmental clean-up applications to minimize human exposure to toxic or hazardous materials or to improve the quality or speed of clean-up operations?

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