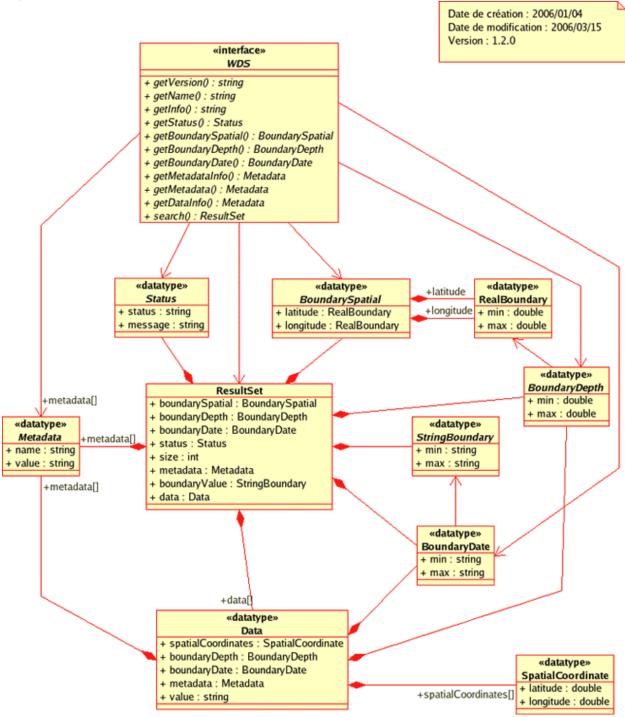
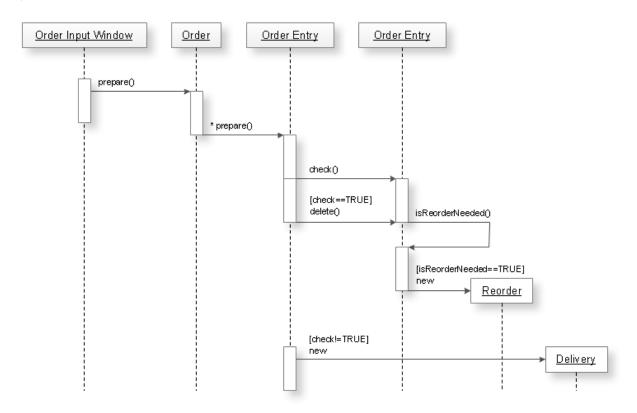
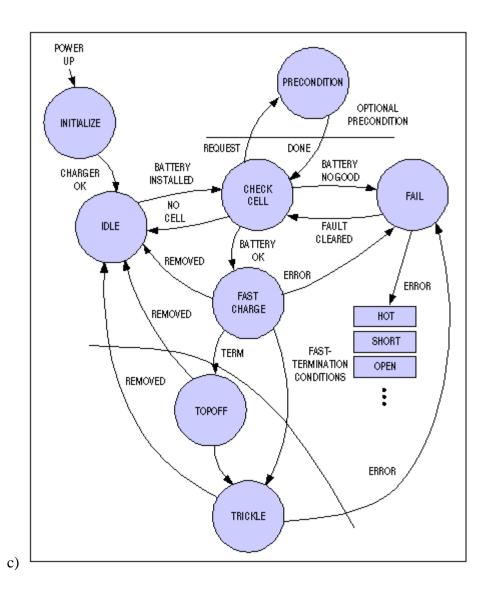
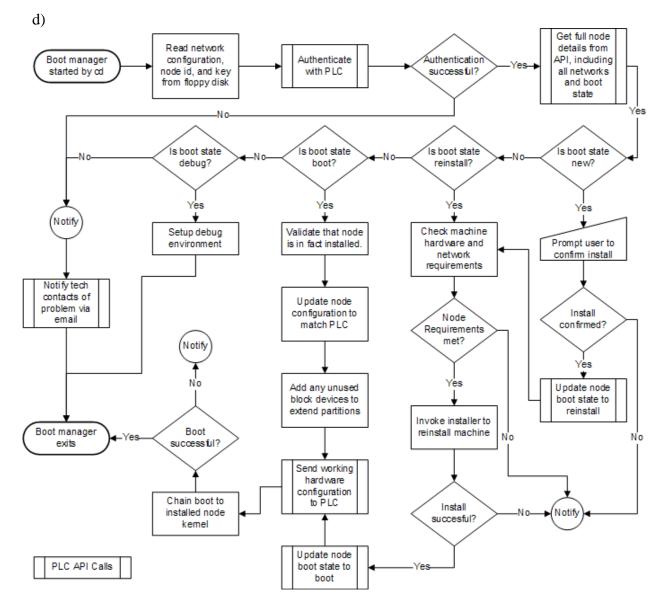
- 1. What is the max baud rate on the iPAQ?
- 2. What version of OS was on the iPAQ?
- 3. What is the newest .net compact?
- 4. The RUP is a process made by whom?
- 5. What are the four phases of the RUP?
- 6. With serial communications and c#, which syntax opens a created serialport
- 7. What are the default ports of input/output Bluetooth for the iPAQ
- 8. What are the different com ports on the iPAQ and what do they do?
- 9. What class is used for most .Net IO
- 10. What is the URL for Dr. Povinelli's web site
- 11. The baud rate for iPAQ is ______ bit/s while for Vex Microcontroller is
- 12. For a threaded application, what method that we need to call to execute a certain function within the code?
- 13. Name the three common characteristics of embedded systems.
- 14. Name three key technologies for embedded systems.
- 15. DomainUpDown Control is supported by the .NET Compact Framework. T / F
- 16. When you open a serial port to send data back and forth, it is recommended that you close the port connection after you are done with the process. T / F
- 17. _____ is the name of an ad-hoc Bluetooth network formed by a master and its slave(s).
- 18. Instead of closing the application, the X icon in the top right corner of a Pocket PC form, by default,
- 19. RUP promotes what practices?
- 20. What was the first smart mobile computing device created in April of 1981?
- 21. Unlike Unicast, Multicast sends information into group(s) and the information is shared to all IP addresses that are associated to the group. True or False?
- 22. The range of multicast addresses is only from 224.0.0.0 through 239.255.255.255. True or False?
- 23. What is a thread?
- 24. Unlike Modeless Windows Form, Modal Windows Form requires command to close the form before executing the rest of the application. True or False?
- 25. In C#, Which two methods are used to display Modal Windows Form?
- 26. Which of the following diagrams represent Sequence Diagram?









- 27. Wireless routers on 802.11b/g does not interefere with Bluetooth devices that share the same band because...
- 28. 802.11b wireless connection operates at which of the following frequencies?
- 29. Windows Mobile's operating system is a family of Windows CE operating system. True or False?
- 30. The latest available Windows Mobile version is version?
- 31. What is an embedded system and what are some examples?
- 32. What is Moore's Law and how does it relate to embedded systems?
- 33. What is a piconet?
- 34. What are three common characteristics of embedded systems?
- 35. What is the difference between managed code and native code?
- 36. How do wireless web cams work?
- 37. Why can iPaq's not be used for controlling the vex robots?

- 38. What is RUP and what are the four phases?
- 39. What were the four projects developed this semester?
- 40. What did the eyeRobot say during the presentation?
- 41. In general, why is Bluetooth a more secure wireless protocol than standard 802.11?
- 42. True or False, there are more embedded systems produced yearly than desktop systems.
- 43. Briefly describe the R.U.P and its four project lifecycle phases.
- 44. What is the primary purpose of Bluetooth?
- 45. What were two networking methods used in the class projects to communicate between devices?
- 46. True of False: The .NET Framework supplies garbage collection.
- 47. Draw a picture showing the .NET compact framework execution environment structurw
- 48. What does Moore's Law state?
- 49. Approximately how many transistors did a leading edge chip in 2002 contain?
- 50. Name and explain some common design metrics for embedded systems.
- 51. What namespace (class) is used for Bluetooth in c#?
- 52. What is the ideal range for Bluetooth connectivity?
- 53. What is the name of the Java API for Bluetooth?
- 54. What is a piconet?
- 55. What are the advantages of using iterative RUP?
- 56. Where did Povinelli travel for 2 weeks this semester?
- 57. True or False: The .NET Compact Framework does not include classes that provide managed access to the serial port on a smart device.
- 58. What is Bluetooth primary meant for?
- 59. In Bluetooth what does PAN stand for and mean?
- 60. What is Moore's Law?
- 61. How many active devices can a piconet contain?
- 62. True or False? The .NET framework supported a serial port interface starting with version 2.0.
- 63. What is the purpose of the Invoke method for C#?
- 64. What is the difference between a phase and a cycle in RUP?
- 65. True or False? Windows Mobile 2003 comes with its own JVM
- 66. What is the purpose of Bluetooth profiles?
- 67. What are the advantages of Bluetooth profiles?
- 68. What are the disadvantages of Bluetooth profiles?
- 69. Why can't the iPAQ connect directly to the VEX Robot?
- 70. What are the advantages of using C# over Java when programming for the iPAQ?
- 71. Briefly discuss the advantages and disadvantages to using multiple threads in an application.
- 72. List at least two ways to test an embedded system.
- 73. Describe what is meant by a real-time embedded system?
- 74. Which one of these is NOT a characteristic of a real-time embedded system?
- 75. Explain the difference between unicast, broadcast, and multicast communication.
- 76. How does test an application on a pc differ from on an embedded system?
- 77. What is an NMEA sentence and how does it relate to GPS systems?
- 78. What is JIT compilation and how is it used by the .NET Compact Framework?
- 79. Personal computer systems are the most type of computer used today. T/F

- 80. Like TCP, UDP guarantees packet delivery and ordering from one endpoint to another. T/F
- 81. In C#, what method can you use to communicate with a single object from multiple threads?
- 82. Asynchronous clients and servers can...
- 83. True or false: Both TCP and UDP allow multicast delivery.
- 84. In general, why is software development for an embedded system difficult? List two reasons.
- 85. List four of the important metrics that are particularly important to embedded systems.
- 86. There are three types of sentences in Bluetooth.
- 87. True or false: All Bluetooth devices on the same piconet are synchronized to the same clock.
- 88. Briefly describe what a typical GPS sentence might look like. (Hint: begin character, syntax, ending characters etc...)
- 89. True or false: GPS sentences are broadcasted via a Bluetooth Ethernet connection
- 90. What are the three advantages of incremental design?
- 91. How might your project benefit from the use of event listeners and handlers?
- 92. What were the difficulties encountered when attempting to integrate the iPAQ and VEX robots?
- 93. What are the four phases of the Rational Unified Process?
- 94. What is the main difficulty in using Bluetooth devices with the .NET framework? How did some or all teams work around this deficiency?
- 95. Why did security camera group have to switch from the iPAQ to a laptop?
- 96. What does NMEA stand for?
- 97. Does the NMEA standard only apply to communication with GPS equipment?
- 98. How many GPS satellites are required to obtain a fixed point?
- 99. What is the orbital period of a GPS satellite?
- 100. What prevented the groups from using Java for their projects?
- 101. What does RUP stands for?
- 102. Who developed RUP?
- 103. What are the 4 phases of RUP?
- 104. What are the outcomes of inception phase?
- 105. What are the outcomes of elaboration phase?
- 106. What are the outcomes of construction phase?
- 107. Name the milestones of the 4 RUP phase.
- 108. If a Bluetooth system has a range of 30 meters, power of 2.5mW, and 4dBm power ratio. What class is this Bluetooth system?
- 109. What is Personal Area Network (PAN)?
- 110. What does ASCII stands for?