What is claimed is:

1. An electronic patient care method, comprising:

receiving one or more patient-care parameters associated with an infusion pump;

storing the one or more patient-care parameters in a nonvolatile memory of the infusion pump;

receiving one or more operating parameters for the infusion pump;

storing the one or more operating parameters in the non-volatile memory of the infusion pump;

determining that operation of the infusion pump has been interrupted by a power interruption;

determining that operation of the infusion pump can resume;

loading the one or more received or calculated operating parameters into a working memory of the infusion pump;

loading the one or more patient-care parameters into the working memory; and

resuming operation of the infusion pump.

2. The method according to claim 1, further comprising calculating one or more additional operating parameters for the infusion pump.

3. The method according to claim 2, further comprising storing the one or more additional operating parameters in the non-volatile memory of the infusion pump.

4. The method according to claim 1, wherein the infusion pump interruption is caused by a user unplugging the infusion pump from a dock.

5. The method according to claim 1, wherein the infusion pump interruption is caused by a hardware fault.

6. The method according to claim 1, wherein the patient-care parameters includes a value associated with patient care.

7. The method according to claim 6, wherein the value associated with patient care is a patient-treatment parameter.

8. The method according to claim 6, wherein the value associated with patient care is a patient-condition parameters.

9. The method according to claim 1, wherein the patient-care parameters includes an infusion rate for the infusion pump.

10. An electronic patient care system, comprising:

an infusion pump configured to:

receive one or more patient-care parameters associated with the infusion pump;

store the one or more patient-care parameters in a nonvolatile memory of the infusion pump;

receive one or more operating parameters for the infusion pump;

store the one or more operating parameters in the non-volatile memory of the infusion pump;

determine that operation of the infusion pump has been interrupted by a power interruption;

determine that operation of the infusion pump can resume;

load the one or more received or calculated operating parameters into a working memory of the infusion pump;

load the one or more patient-care parameters into the working memory; and

resume operation of the infusion pump.

11. The system according to claim 10, wherein the patient-care parameter is an infusion rate for the infusion pump.

12. The system according to claim 10, wherein the infusion pump receives the one or more patient-care parameters from a hub.

13. The system according to claim 10, wherein the infusion pump receives the one or more operating parameters from a hub.

14. The system according to claim 10, wherein the infusion pump interruption is caused by a user unplugging the infusion pump from a dock.

15. The system according to claim 10, wherein the infusion pump interruption is caused by a hardware fault.

16. The system according to claim 10, wherein the power interruption is a brown out.

17. The system according to claim 10, wherein the operating parameter is selected from the group consisting of a speed limit for a motor of the infusion pump, an infusion pump speed, a wattage limitation on wireless communications, a battery discharge rate limit, and an update frequency.

18. The system according to claim 10, wherein the infusion pump is further configured to calculate a gain coefficient of a PID control loop having adaptive gain coefficients for automatic gain control.

19. The method according to claim 1, wherein the power interruption is a brown out.

20. The method according to claim 1, wherein the operating parameter is selected from the group consisting of a speed limit for a motor of the infusion pump, an infusion pump speed, a wattage limitation on wireless communications, a battery discharge rate limit, and an update frequency.

21. The method according to claim 1, wherein the method further comprises hot swapping the infusion pump.