CLAIMS

WHAT IS CLAIMED IS:

1. A method of servicing an engine, the method comprising:

receiving, by one or more computing devices, information corresponding to equipment, including one or more components of the engine;

determining, by the one or more computing devices, a location of the one or more components of the engine with respect to a location of an augmented reality device; and

presenting in a current field of view display of the augmented reality device and projecting onto a surface of the equipment, a projected image including at least a portion of the information corresponding to the one or more components of the equipment, wherein the portion of the information includes instructions regarding assembly or disassembly utilizing directional arrows associated with the assembly or disassembly of the one or more components.

2. The method of claim 1, further comprising servicing the engine in response to the at least a portion of information presented in the current field of view display, the service including at least one of inspection operations, repair operations, or both.

3. The method of claim 1, wherein the at least a portion of the information includes audible information.

4. The method of claim 1, wherein the step of receiving information further includes syncing the augmented reality device with the one or more computing devices.

5. The method of claim 1, further comprising generating an alert in the current field of view display for dangerous conditions associated with the engine.

6. The method of claim 5, wherein the dangerous conditions correspond with elevated temperatures, sharp edges, incomplete workscopes, improper service operations, or any combination thereof.

7. The method of claim 1, further comprising capturing, by the augmented reality device, a visual feed of the engine and transmitting the visual feed of the engine to a node for analysis of the engine, the analysis being used to create the information corresponding to the one or more components of the engine.

8. A system for servicing an engine, the system comprising a memory storing processor-executable instructions and a processor to execute the processor-executable instructions to cause the system to:

receive information corresponding to equipment, including one or more components of the engine;

determine a location of the one or more components of the engine with respect to a location of an augmented reality device; and

present, in a current field of view display of the augmented reality device and project onto a surface of the equipment, a projected image including at least a portion of the information corresponding to the one or more components of the equipment, the portion of the information including instructions regarding assembly or disassembly utilizing directional arrows associated with the assembly or disassembly of the one or more components.

9. The system of claim 8, wherein the processor-executable instructions further cause the augmented reality device to present audible information.

10. The system of claim 8, wherein the processor-executable instructions further cause the augmented reality device to sync with one or more computing devices.

11. The system of claim 8, wherein the processor-executable instructions further cause the augmented reality device to generate an alert in the current field of view display for dangerous conditions associated with the engine.

12. The system of claim 11, wherein the dangerous conditions correspond with elevated temperatures, sharp edges, incomplete workscopes, improper service operations, or any combination thereof.

13. The system of claim 8, wherein the processor-executable instructions further cause the augmented reality device to capture a visual feed of the engine and transmit the visual feed of the engine to a node.

14. The system of claim 13, wherein the processor-executable instructions further cause generation of analysis to create information corresponding to the one or more components of the engine.

15. The system of claim 8, wherein the memory storing processor-executable instructions and processor are disposed at a remote location.

16. A method of servicing a gas turbine engine, the method comprising:

analyzing a visual feed from an environmental capture device;

determining a human-based operation of a servicing operation on the engine at least partially in view of the analyzed visual feed;

presenting to a human, in a current field of view display of an augmented reality device and projecting onto a surface of a portion of the engine, a projected image including the human-based operation or information associated therewith; and

performing, by a robotic assembly, an autonomous operation of the servicing operation on the engine before or after presenting the human-based operation.

17. The method of claim 16, wherein the step of determining the human-based operation is performed by one or more computing devices remotely located relative to the augmented reality device.

18. The method of claim 16, wherein the information associated with the human-based operation includes a rendering of one or more components, instructions regarding operations to be performed on the one or more components, directional arrows or contextual information associated with the one or more components, or any combination thereof.