WHAT IS CLAIMED IS:

1. A selectively flexible extension tool comprising:

a line assembly; and

a plurality of sequentially arranged links, the line assembly operable with the plurality of sequentially arranged links to move the plurality of sequentially arranged links between a slacked position and a tensioned position, the plurality of sequentially arranged links spaced from one another when in the slacked position to allow the plurality of sequentially arranged links to pivotably move relative to one another, the plurality of sequentially arranged links pressed against one another when in the tensioned position to rigidly fix the plurality of sequentially arranged links to one another in a pre-defined shape set by a geometry of the sequentially arranged links.

2. The selectively flexible extension tool of claim l, wherein the plurality of sequentially arranged links includes a first link extending between a forward end and an aft end and a second link extending between a forward end and an aft end, the forward end of the first link defining a first interface geometry, the aft end of the second link defining a second interface geometry complementary to the first interface geometry.

3. The selectively flexible extension tool of claim 2, wherein the line assembly includes a first line slidable relative to at least the first link to move the plurality of sequentially arranged links between the slacked position and the tensioned position.

4. The selectively flexible extension tool of claim 2, wherein the first link defines a first geometry, wherein the second link defines a second geometry, and wherein the first geometry and the second geometry are substantially the same.

5. The selectively flexible extension tool of claim 2, wherein the first link defines a first geometry, wherein the second link defines a second geometry and wherein the first geometry is different than the second geometry.

6. The selectively flexible extension tool of claim 2, wherein the first interface geometry defines a circumference and comprises at least two extension members spaced along the

circumference, wherein the second interface geometry also defines a circumference and comprises at least two indentions corresponding in shape to the at least two extension members.

7. The selectively flexible extension tool of claim 6, wherein the at least two extension members of the first interface geometry comprises three-extension members, and wherein the at least two indentions of the second interface geometry comprises three corresponding indentions.

8. The selectively flexible extension tool of claim 6, wherein the at least two extension members of the first interface geometry are pressed within the at least two indentions of the second interface geometry when the plurality of links is in the tensioned position.

9. The selectively flexible extension tool of claim 2, further comprising:

a biasing member operable with the first link and the second link for biasing the second link away from the first link, and wherein the line assembly is configured to overcome the biasing member when moving the plurality of links to the tensioned position.

l0. The selectively flexible extension tool of claim 9, wherein the biasing member is an elastic member positioned at least partially between the first link and the second link.

11. The selectively flexible extension tool of claim 9, wherein each of the plurality of links defines an outer surface, and wherein the biasing member is a spring attached to the outer surface of the first link and the outer surface of the second link for biasing the second link away from the first link.

12. The selectively flexible extension tool of claim 9, wherein each of the plurality of links defines an outer surface, and wherein the biasing member is a spring positioned inward of the outer surface of the first link and inward of the outer surface of the second link.

13. The selectively flexible extension tool of claim 1, further comprising:

a plurality of biasing members, wherein each biasing member is operable with a pair of adjacent links of the plurality of links for biasing the adjacent links away from one another.

14. The selectively flexible extension tool of claim 1, further comprising:

a biasing member operable with each of the plurality of links for biasing adjacent links away from one another, wherein each of the plurality of links defines an outer surface, and wherein the biasing member is operable with the outer surface of each of the plurality of links.

15. The selectively flexible extension tool of claim 14, wherein the biasing member comprises an elastomeric material attached to the outer surface of each of the plurality of links.

16. The selectively flexible extension tool of claim 14, wherein the biasing member comprises a continuous spring member attached to the outer surface of each of the plurality of links.

17. The selectively flexible extension tool of claim 1, wherein each of the plurality of links defines a substantially similar geometry.

18. The selectively flexible extension tool of claim 1, wherein each of the plurality of links is formed through an additive manufacturing process.

19. The selectively flexible extension tool of claim 1, wherein the selectively flexible extension tool is a guide tube, and wherein the plurality of links together define a hollow tube extending therethrough.

20. The selectively flexible extension tool of claim 1, wherein the selectively flexible extension tool is a tool member further comprising a tool implement coupled to one of the plurality of links.

21. The selectively flexible extension tool of claim 20, wherein the tool implement comprises a drill, and wherein the selectively flexible extension tool comprises a flexible driveshaft extending through the plurality of links.

22. The selectively flexible extension tool of claim 20, wherein the tool implement comprises one or more sensors, a camera, or both.

23. The selectively flexible extension tool of claim 1, wherein the each of the plurality of links comprises a circumferential wall, wherein the line assembly comprises a first line, and

wherein the first line of the line assembly extends through the circumferential wall of each of the plurality of links.

24. The selectively flexible extension tool of claim 23, wherein each link of the plurality of links defines a lengthwise opening in the circumferential wall, and wherein the first line of the line assembly is slidably received through the lengthwise opening of the circumferential wall of each link of the plurality of links.

25. The selectively flexible extension tool of claim 1, wherein the line assembly comprises a plurality of lines operable with the plurality of links.

26. The selectively flexible extension tool of claim 1, wherein the plurality of sequentially arranged links is a first plurality of sequentially arranged links defining a first guide tube extending therethrough, and wherein the selectively flexible extension tool further comprises:

a second plurality of sequentially arranged links movably positioned at least partially within the first guide tube of the first plurality of sequentially arranged links.

27. The selectively flexible extension tool of claim 26, wherein the line assembly comprises a first line operable with the first plurality of sequentially arranged links to move the first plurality of sequentially arranged links between a slacked position and a tensioned position, and a second line operable with the second plurality of sequentially arranged links to move the second plurality of sequentially arranged links between a slacked position and a tensioned position.

28. The selectively flexible extension tool of claim 26, wherein the second plurality of sequentially arranged links together define a second guide tube extending therethrough, and wherein the selectively flexible extension tool further comprises:

a third plurality of sequentially arranged links movably positioned at least partially within the second guide tube of the second plurality of sequentially arranged links.

29. The selectively flexible extension tool of claim 1, wherein the plurality of sequentially arranged links defines is a first plurality of sequentially arranged links defining a forward end, and wherein the selectively flexible extension tool further comprises:

a second plurality of sequentially arranged links coupled to the forward end of the first plurality of sequentially arranged links.

30. The selectively flexible extension tool of claim 29, wherein the line assembly comprises a first line operable with the first plurality of sequentially arranged links to move the first plurality of sequentially arranged links between a slacked position and a tensioned position, and a second line operable with the second plurality of sequentially arranged links to move the second plurality of sequentially arranged links between a slacked position and a tensioned position, and wherein the second line is operable with the second plurality of sequentially arranged links independent of the first line being operable with the first plurality of sequentially arranged links.

31. A method for operating a selectively flexible extension tool within an environment defining a nonlinear path, the selectively flexible extension tool comprising a line assembly and a plurality of sequentially arranged links, the method comprising:

inserting ~~a~~the plurality of sequentially arranged links of the selectively flexible extension tool at least partially into the nonlinear path of the environment while the plurality of sequentially arranged links of the selectively flexible extension tool are in a slacked position; and

tensioning a line of ~~a~~the line assembly operable with the plurality of sequentially arranged links to move the plurality of sequentially arranged links to a tensioned position to rigidly fix the plurality of sequentially arranged links to one another~~.~~ in a pre-defined shape set by a geometry of the sequentially arranged links.

32. The method of claim 31, further comprising:

inserting a tool implement through a guide tube defined by the plurality of sequentially arranged links in the tensioned position to access the environment.

33. The method of claim 31, wherein the plurality of sequentially arranged links of the extension tool is a first plurality of sequentially arranged links, wherein the extension tool further comprises a second plurality of sequentially arranged links, wherein the second plurality of sequentially arranged links is movable between a retracted position wherein the second plurality of sequentially arranged links is substantially nested within the first plurality of sequentially arranged links and an extended position wherein the second plurality of

sequentially arranged links is substantially extended from within the first plurality of sequentially arranged links, and wherein the second plurality of sequentially arranged links is further movable between a slacked position and a tensioned position,

34. The method of claim 33, wherein inserting the plurality of sequentially arranged links of the selectively flexible extension tool comprises inserting the first plurality of sequentially arranged links into the nonlinear path of the environment while the second plurality of sequentially arranged links is in the retracted position and the slacked position.

35. The method of claim 34, wherein tensioning the line of the line assembly comprises tensioning a first line of the line assembly, and wherein the method further comprises:

moving the second plurality of sequentially arranged links to the extended position subsequent to tensioning the first line of the line assembly.

36. The method of claim 35, wherein the method further comprises:

tensioning a second line of the line assembly operable with the second plurality of sequentially arranged links to rigidize the second plurality of sequentially arranged links and rigidly fix the second plurality of sequentially arranged links to one another.

37. The method of claim 31, wherein the plurality of sequentially arranged links of the extension tool is a first plurality of sequentially arranged links, wherein the extension tool further comprises a second plurality of sequentially arranged links, wherein the line of the line assembly is a first line of the line assembly, wherein the line assembly further comprises a second line operable with the second plurality of sequentially arranged links, and. wherein the method further comprises:

tensioning the second line of the line assembly to move the second plurality of sequentially arranged links to a tensioned position to rigidize the second plurality of sequentially arranged links and rigidly fix the second plurality sequentially arranged links to one another independently from the tensioning of the first line of the line assembly.

38. The method of claim 37, wherein the first plurality of sequentially arranged links defines a forward end, wherein the second plurality of sequentially arranged links defines an aft end, and wherein the aft end of the second plurality of sequentially arranged links is coupled to the forward end of the first plurality of sequentially arranged links.

39. The method of claim 31, wherein the environment is a gas turbine engine, and wherein the nonlinear path is a nonlinear path from a borescope opening of the gas turbine engine to a radially inner end of a gas turbine engine component.

40. The method of claim 39, wherein the gas turbine engine component is a compressor rotor blade or a turbine rotor blade.