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Summary Diagram of Four Key Dualities Enhancing Expert Witness Effectiveness

Dr. Anson has skills in four key dualities that enhance his effectiveness in forensic engineering and expert witnessing.

- 1) He is formally educated and experienced in both **Mechanical Engineering** and **Materials Engineering**, which enables him to assess both mechanical overstress and materials degradation, without defaulting to one or the other as the failure cause due to singular familiarity. In addition, he is uniquely able to parse issues of overstress and materials degradation, such that he is well positioned to de-conflate myopic root cause arguments that overlook the other possibility.
- 2) He has a deep background in failure analysis from both a formal **analytical laboratory** perspective and using **field techniques**, which he combines to solve problems expediently.
- 3) As a university professor he has been recognized for excellence in both **teaching** and **connecting** with students. These teaching and connecting skills transfer to expert witness work as he supports the trier of fact in understanding the technical facts in issue to form a well-informed ruling.
- 4) While he is **highly educated**, he also has a **hands-on** approach to life such that he does most of his own vehicle and homestead repairs, which rounds out his theoretical knowledge with hands-on (practical) problem solving skills.

Duality	Element 1	Element 2	Duality Implication
1	Mechanical Engineering	Materials Engineering	Able to parse factors and determine the actual cause of failure
2	Laboratory Failure Analysis	Field Failure Analysis/Testing	Expedited failure cause determination
3	Teaching	Connecting	Able to support the trier of fact in understanding the facts in issue
4	Highly Educated	Hands-on	Able to quickly recognize the appropriate analysis approach

Table 1: Summary of Four Key Dualities Enhancing Forensic Engineering and Expert Witnessing Effectiveness