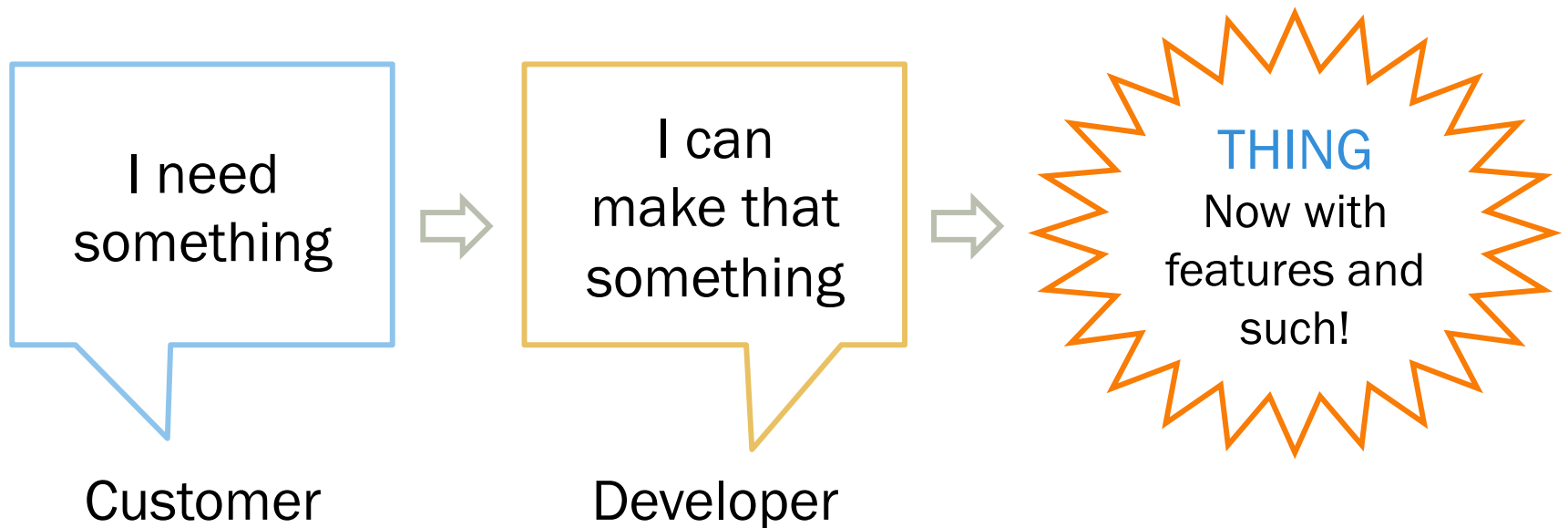


Software Engineering



How does Software Engineering fit with other computing disciplines?

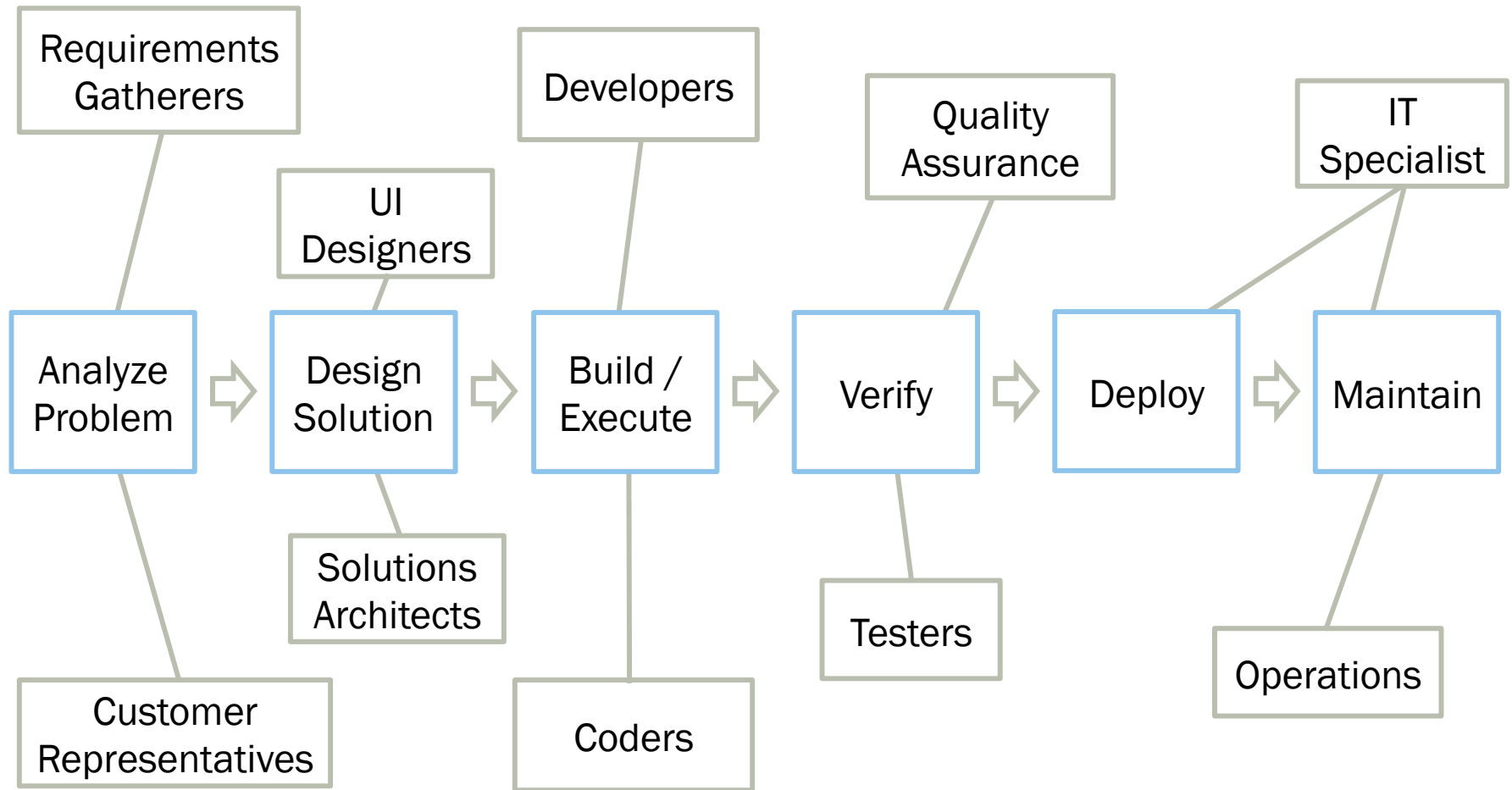
How Is Software Made?



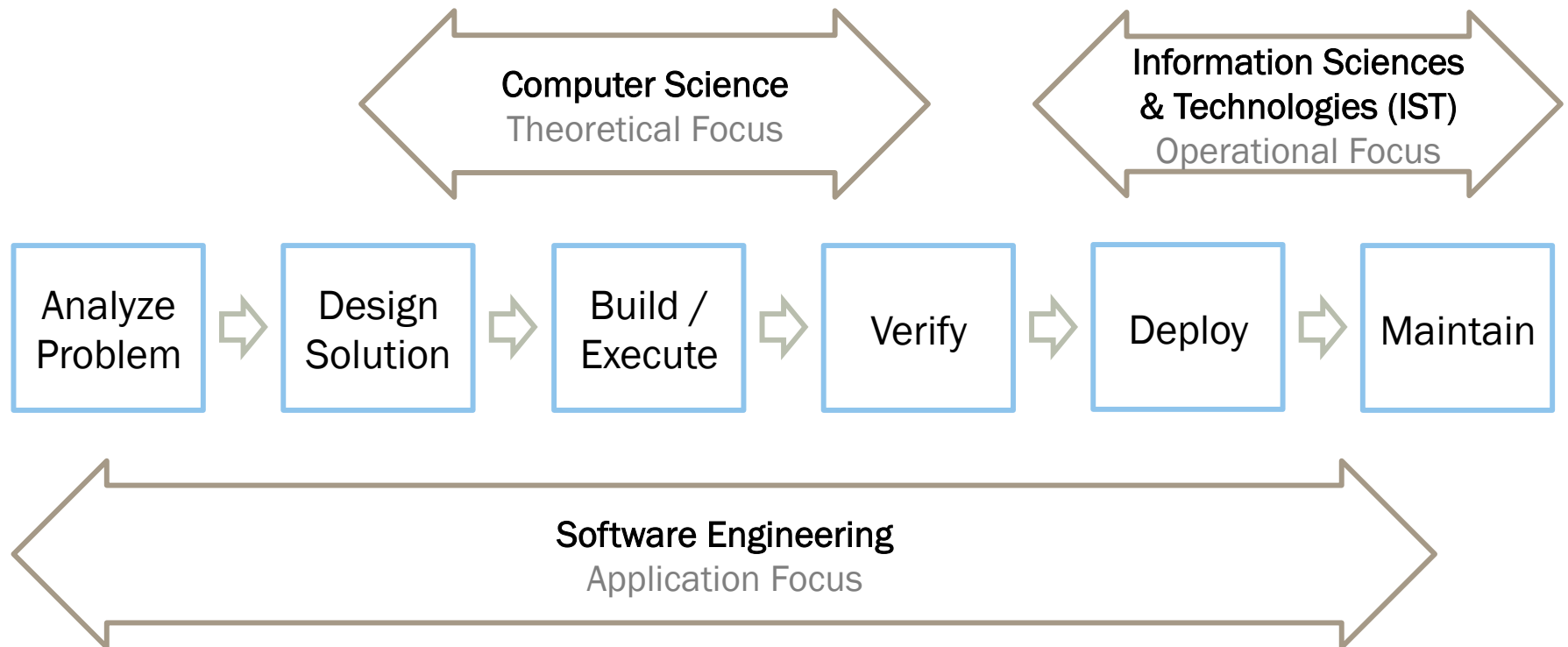
The Engineering Process



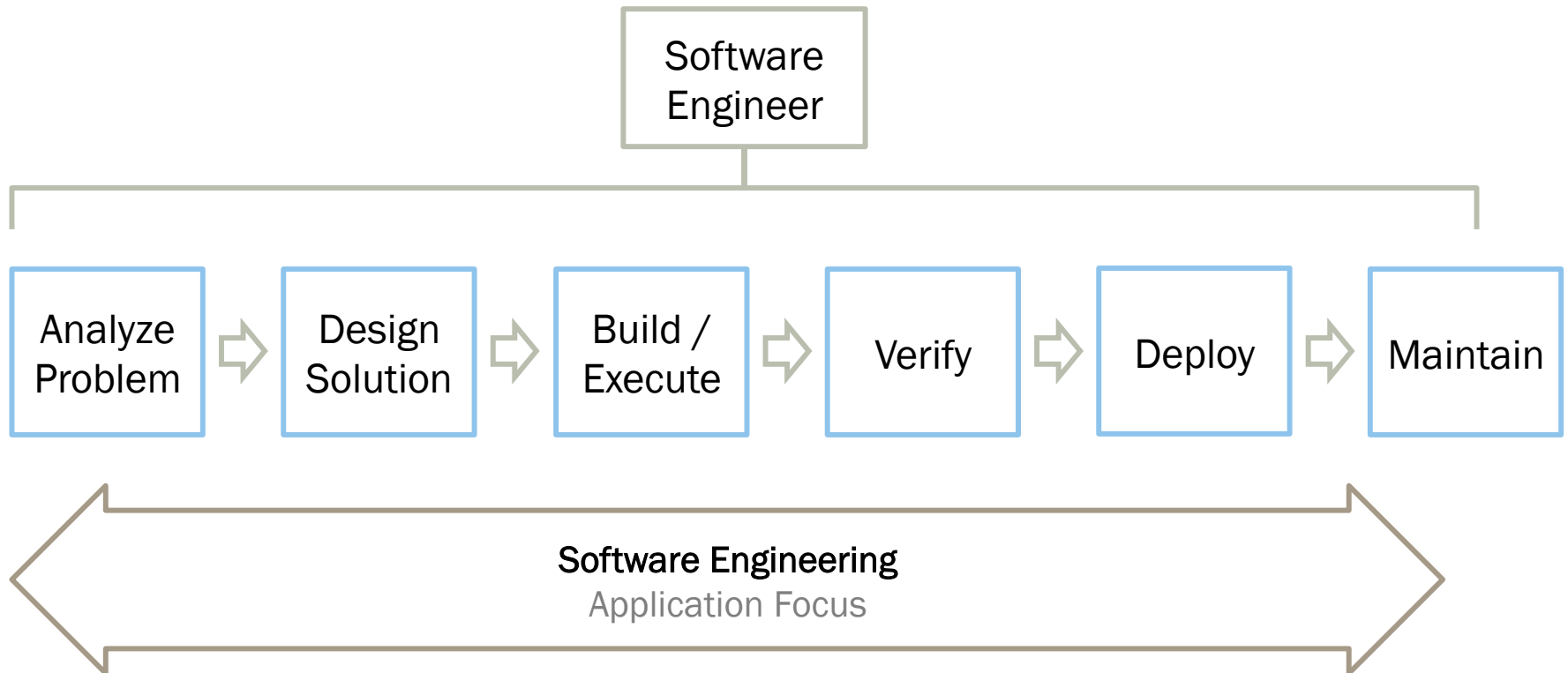
Job Titles



Focus of Different Disciplines



Software Engineering

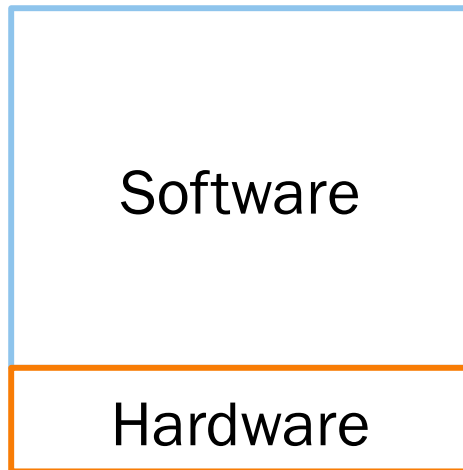


Differing Views of Failure

- ✎ Pure Computer Science is interested in the theory, so failure of a concept to apply to a particular problem **isn't as important as the science**
- ✎ IT/IS/IST avoids failure at all costs, because operational **failure equates to a complete breakdown** of their duties and objectives
- ✎ Software Engineering views **failure as a learning opportunity**, because their process has many steps and can be improved incrementally

Computer Engineering: A Matter of Focus

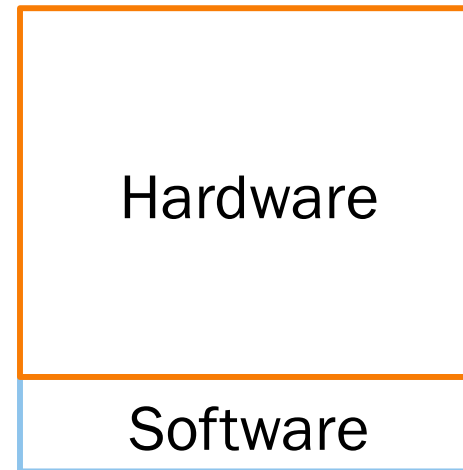
Software Engineering



Word Processor

- Software provides functionality
- Hardware supports the software

Computer Engineering



Manufacturing Robot

- Hardware provides functionality
- Software supports the hardware