Programmable Hydraulic Systems – Assessment Rubric

Criteria	Level 1	Level 2	Level 3	Level 4
Communication **- explain the role of Pascal's Principle in your hydraulic system**	- provides an explanation of the role of Pascal's Principle with limited clarity	- provides an explanation of the role of Pascal's Principle with some clarity	- provides an explanation of the role of Pascal's Principle with considerable clarity	- provides an explanation of the role of Pascal's Principle with a high degree of clarity
Communication **- discuss the energy transformations throughout the operation of the hydraulic system**	- identifies the types of energy present and how they are transformed throughout the system with limited clarity	- identifies the types of energy present and how they are transformed throughout the system with some clarity	- identifies the types of energy present and how they are transformed throughout the system with considerable clarity	- identifies the types of energy present and how they are transformed throughout the system with a high degree of clarity
Thinking **- construct and analyze a circuit in quantitative terms to test Kirchhoff's law**	- analysis of circuit is completed with limited clarity	- analysis of circuit is completed with some clarity	- analysis of circuit is completed with considerable clarity	- analysis of circuit is completed with a high degree of clarity
Thinking **- construct a functioning hydraulic system operated by written computer code**	- your hydraulic system operates without manual control with limited success	- your hydraulic system operates without manual control with some success	- your hydraulic system operates without manual control with considerable success	- your hydraulic system operates without manual control with a high degree of success