

ABOUT US



HYBRID REQUIREMENTS

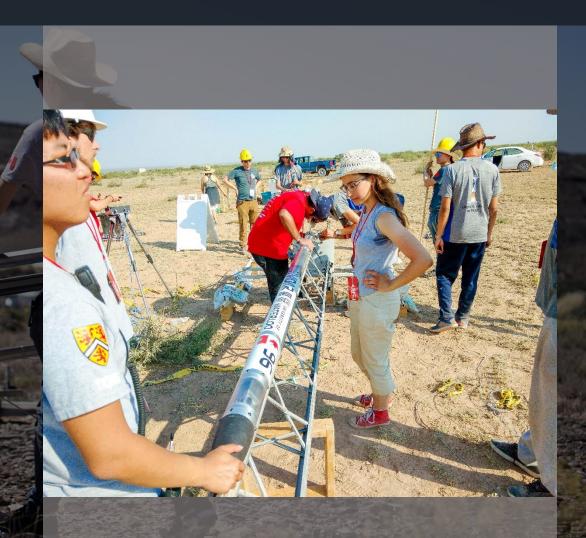


PRE-LAUNCH OBJECTIVES

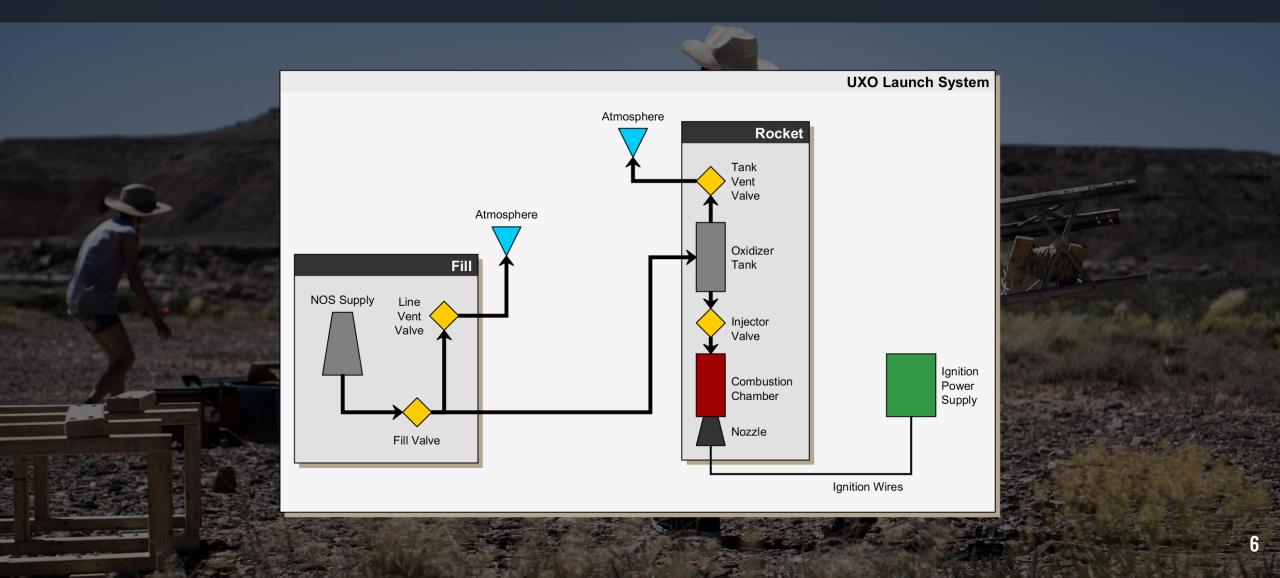


CONSIDERATIONS

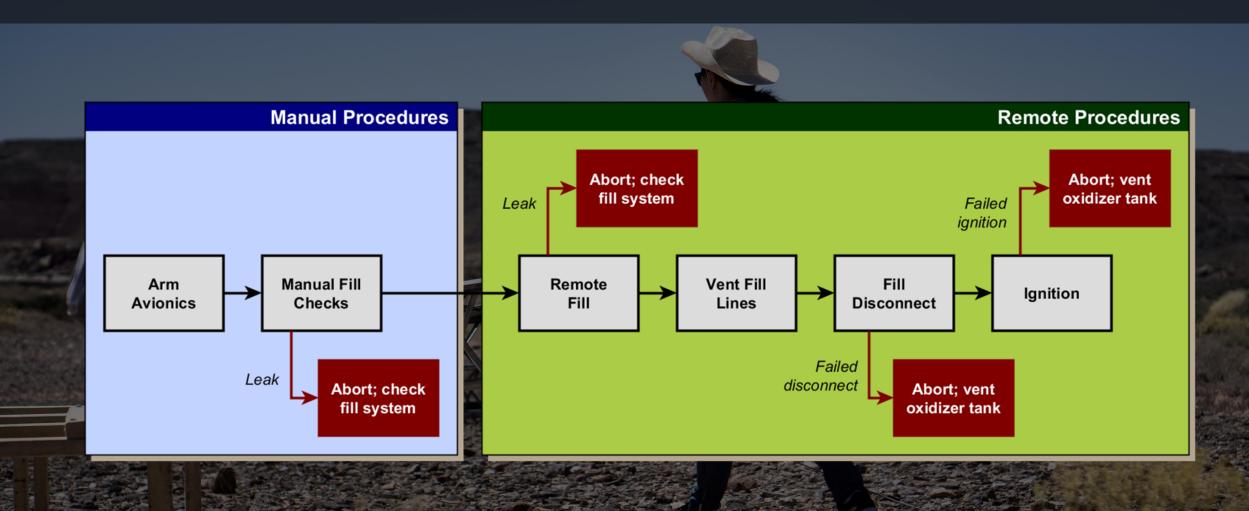
 Safety Operator proximity to rocket Fail-safe **Efficiency** Speed of fill Ease of setup Reliability Well-defined and understood failure modes Modularity Extension for future rocket capabilities Replaceable components



SYSTEM OVERVIEW

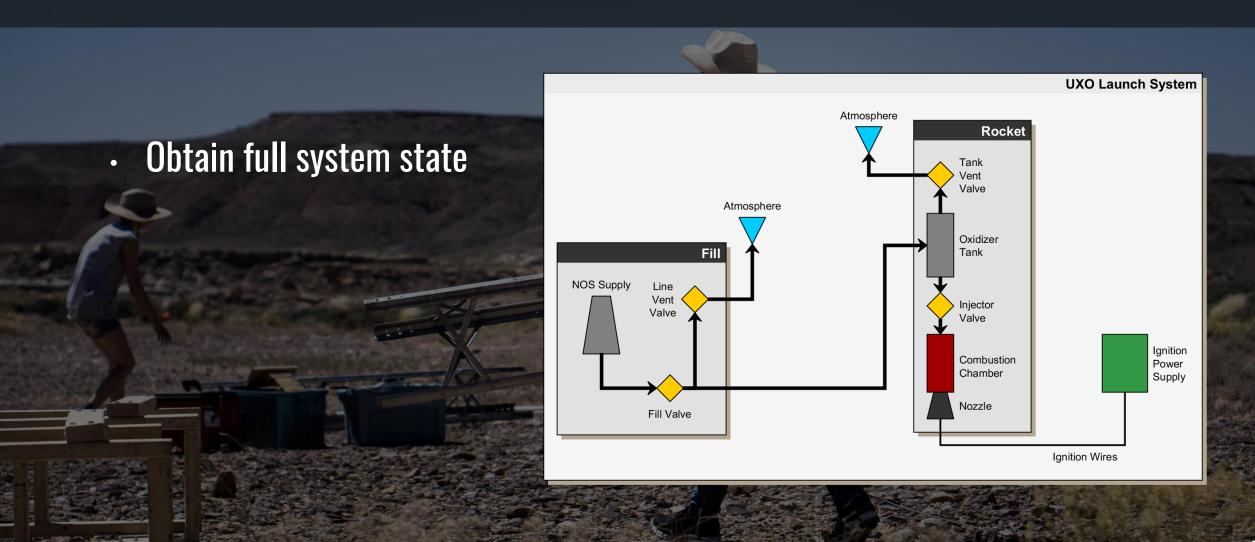


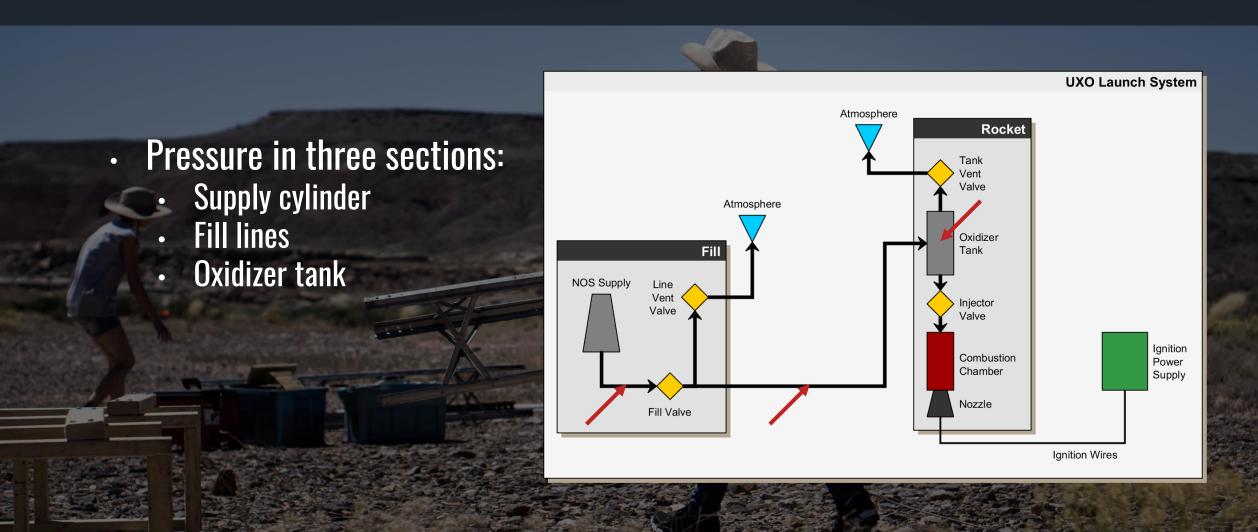
LAUNCH OPERATIONS

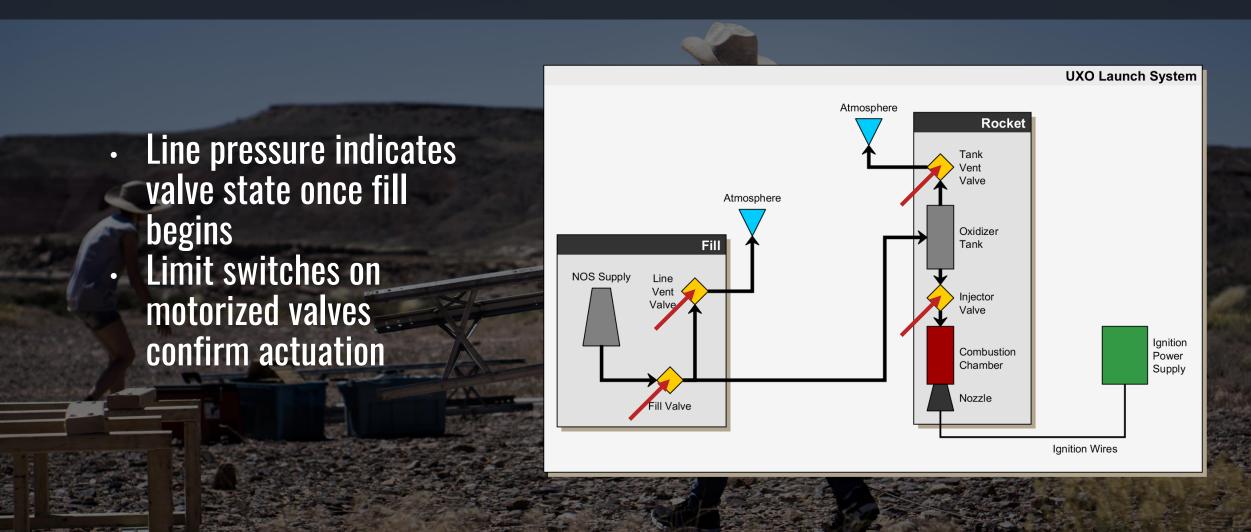


SYSTEM BREAKDOWN

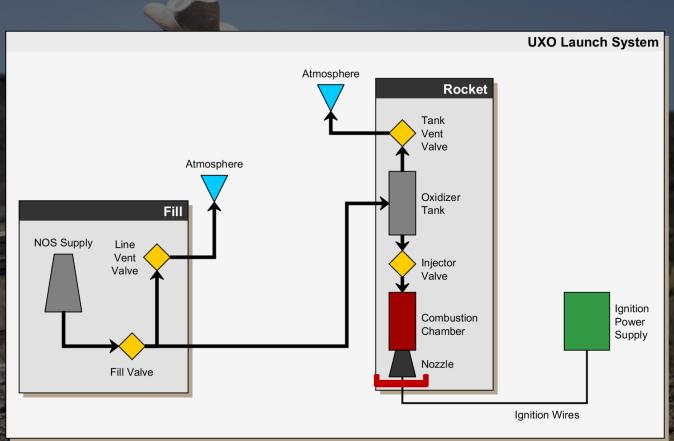


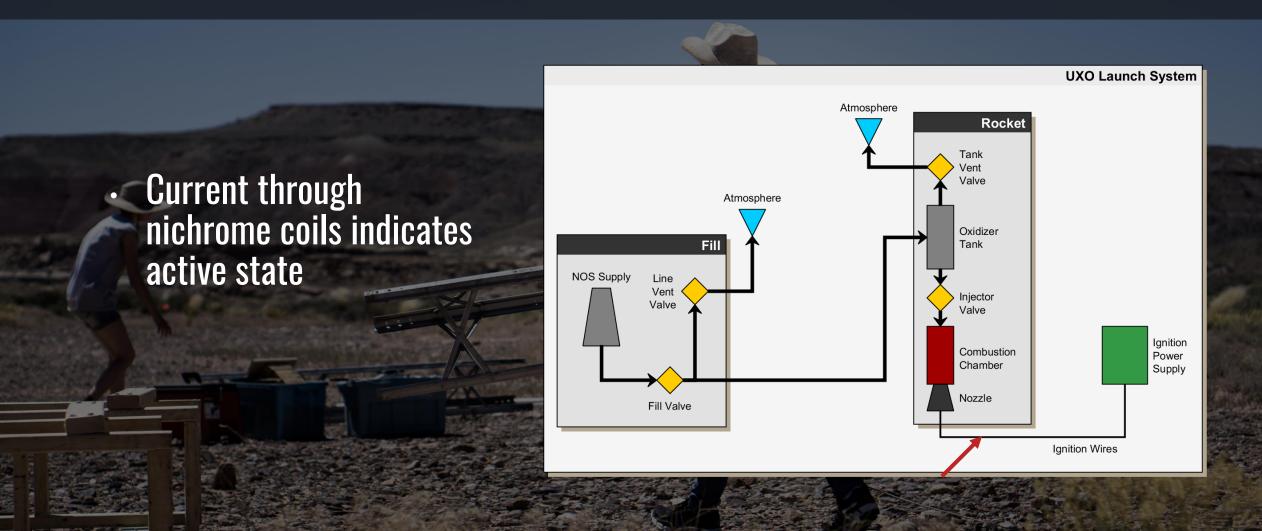






 Pressure measurements are insufficient for confirmation of full oxidizer tank Rocket mass provides confirmation

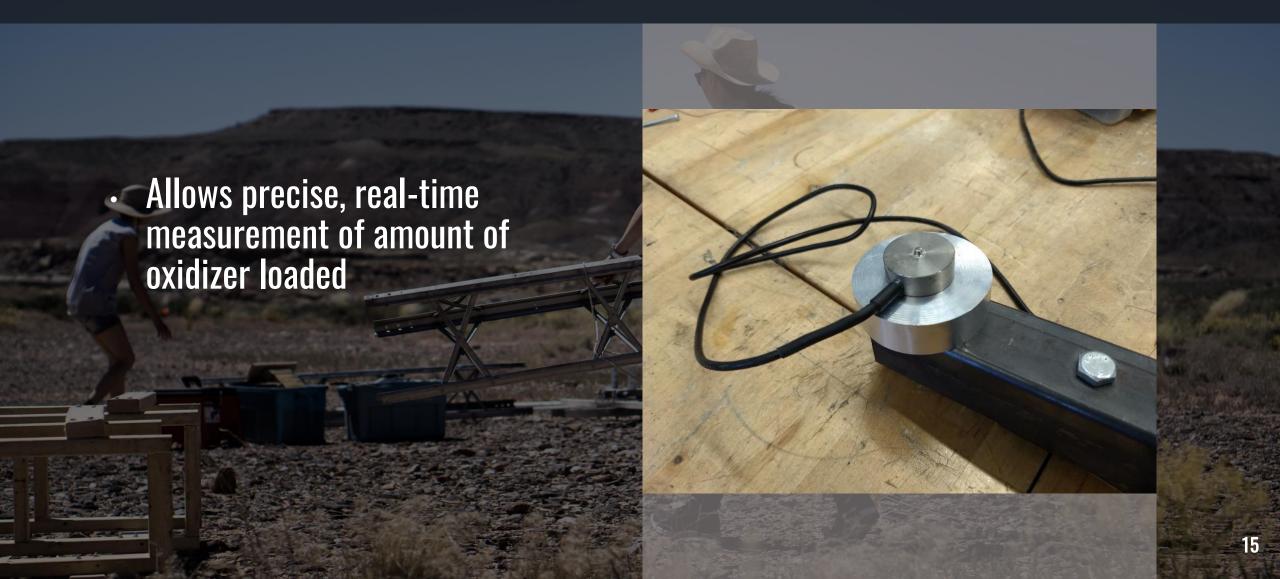




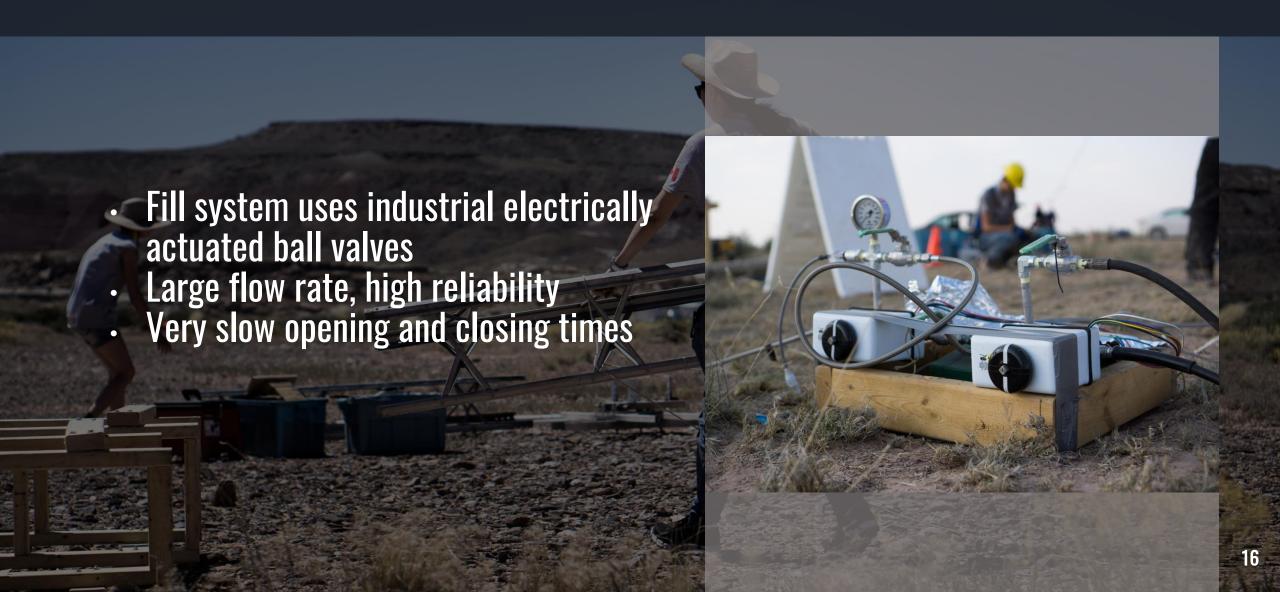
SENSORS - PRESSURE



SENSORS - MASS



ACTUATORS - VALVES



ACTUATORS - VALVES



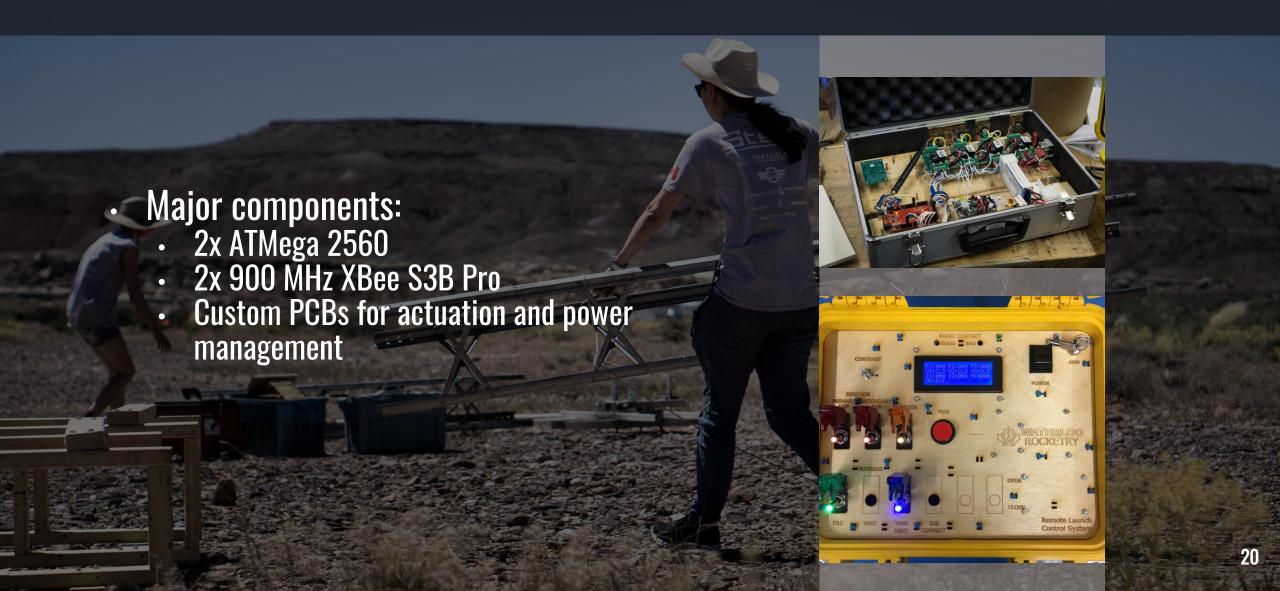
ACTUATORS - DISCONNECT



ACTUATORS - IGNITION



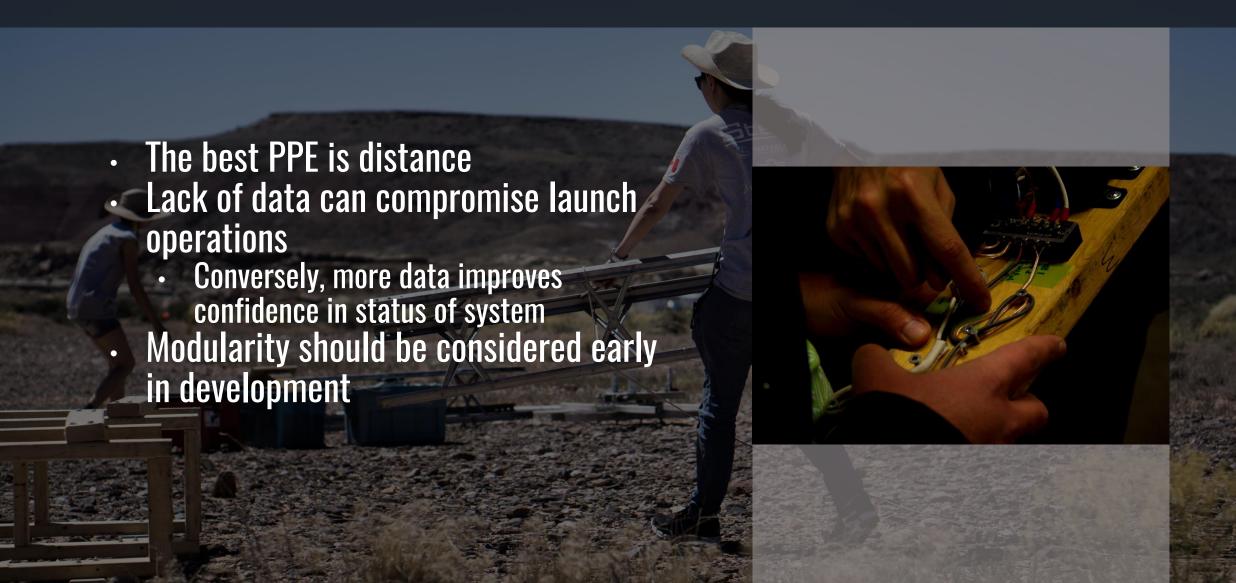
CONTROL AND COMMUNICATION



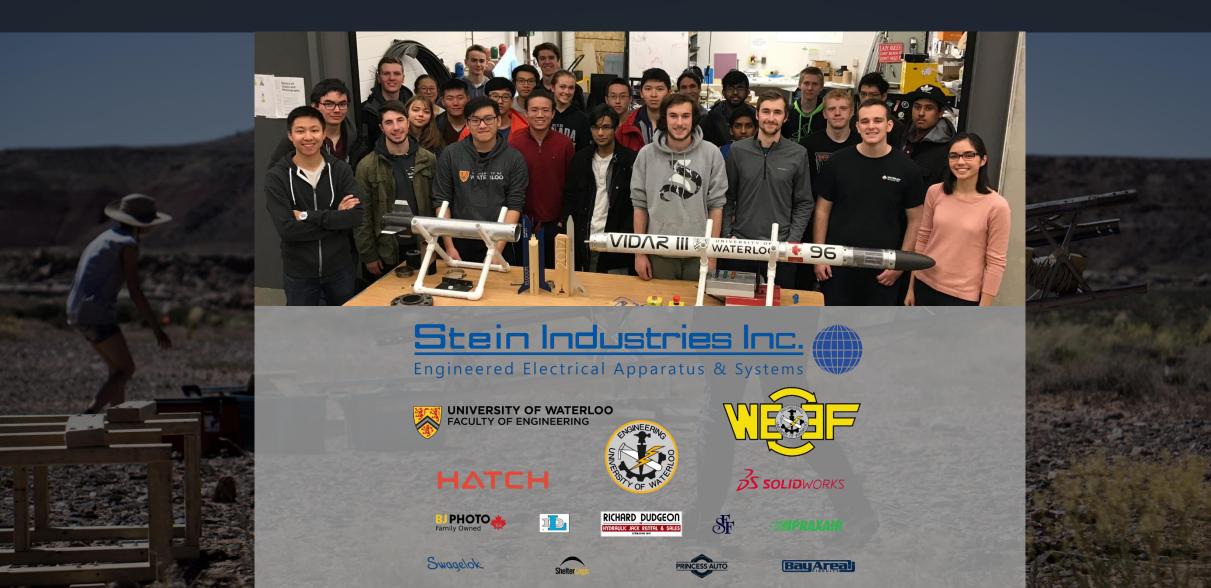
NEXT STEPS



LESSONS LEARNED



THANK YOU



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