

Important Terms

Become familiar with the following terms and their definitions in the context of this project.

Invention – A new and unique solution or device to solve an observed problem

Innovation – An improved/enhanced solution or device

Entrepreneur – A person who takes the risk of starting a business to develop their product or service

Engineering – The application of science to create useful products and systems through careful design, building, testing, and iteration

Engineering Design Process – The steps an engineer follows to develop a solution to a problem

Ideation – The process of generating ideas through discussion, brainstorming, and research

Scope – The extent of the problem or design and the conditions which must be considered

Criteria – The important requirements that must be met to achieve a successful design

Constraint – A limitation or restriction for the design that must be accounted for

Prototype – A model of the design to prove that it works

Iteration – Repeated testing and improvement to make the design better

Patent – An official document protecting the rights of an inventor so other people cannot steal their invention