Autoliv Canada Inc. is a supplier to automotive manufacturers (Ford, GM, Honda, etc) of integrated airbag diagnostic modules for use in passenger vehicles. The Markham manufacturing site uses high speed electronics placement equipment to populate and reflow solder of these module assemblies. Occasionally, the automated line is disrupted and requires the holding of work in process (WIP). This WIP degrades with time and its management is critical to ensure quality of the finished assemblies. Students in collaboration with Autoliv, will develop a storage system for WIP in the case of disruption whereby the parts may be stored safely and returned to the line with no deterioration of quality. The system will include time and serial number tracking and indication to notify the operator in the case of product expiry. The complete system will be used within AutoLiv and help improve the quality of their products.