**Safran Electronics and Defense Canada**

**Project Title:** Development of Production Line In-Circuit Programming Tool

**Objectives:**
- Capture the requirements for production line based programming of embedded microcontroller and batch programming
- Develop programming software, design document and user guide
- Provide training to production staff

**Project Description:**

Safran Electronics and Defense Canada will be entering production in 2022 for an evolution of our Data Collection Unit products. In order to support efficient manufacturing times, the software will be loaded onto the units on the production line with a batch programming method. The processor used for this evolution has changed from the previous designs and therefore the currently used methods are no longer compatible, therefore a new tool needs to be designed and implemented.

**Pre-requisite and Skill Required:**

Understanding of embedded microcontroller basic principles and communications protocols - Software design capabilities with GUI knowledge, Python, C#, Java or others are usable - Well organized - Good communication skills to be able to train others in use of the tooling