**Weekly Report**

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| **Name:** | Sky | **Team/Group:** | Imaging Cargo | **Date:** | 03/02/2025 – 07/02/2025 |

**Tasks & Progress**

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| **Tasks/Projects** | **Descriptions** | **Remarks** |
| CT Demo Code Study | * **CvvImage.h**   + Studied the **CvvImage** class, which handles image loading, saving, copying, conversion, display, and resizing.   + Key functions include:     - **Create()** – Initializes an image.     - **Load() / LoadRect()** – Loads an image or a specific region.     - **CopyOf()** – Copies images with optional color conversion.     - **GetImage()** – Returns the internal image.     - **ResizeImage() / DrawToHDC()** – Resizes and renders images in Windows HDC. * **CvvImage.cpp**   + Implemented helper functions for handling image and RECT conversions.   + Key functions analyzed:     - **NormalizeRect(), RectToCvRect(), CvRectToRect()** – RECT and CvRect conversions.     - **CopyOf()** – Copies images and converts color formats.     - **Load(), LoadRect(), Save()** – Image loading and saving operations.     - **ResizeImage(), DrawToHDC()** – Resizing and rendering with aspect ratio maintenance. * **Resource.h**   + Defines UI elements, icons, dialogues, and graphical resources.   + **Regrouped and commented** resource identifiers for clarity. * **stdafx.h & stdafx.cpp**   + Precompiled headers for optimised compilation.   + Key inclusions: **MFC components, common controls, SDK integrations**.   + Defined custom macros and Windows messages (e.g., **WM\_USER\_NOTICE\_TEMPLATE\_TOOL**). * **targetver.h**   + Defines **minimum required platform (Windows, IE, etc.)** for compatibility.   + Default settings: **Windows Vista, IE 7.0**.   + Customizable for older versions if needed. * **HB\_SDK\_DEMO2008.h & HB\_SDK\_DEMO2008.cpp**   + **Defines the main application class (CHB\_SDK\_DEMO2008App).**   + Handles **application initialization, UI setup, and Windows messages**.   + Manages **registry settings and debugging console output**.   + **Refactored comments for clarity**. * **CDetectorSettingDlg.h & DetectorSettingDlg.cpp**   + Implements the **Detector Settings UI** using **CDialogEx**.   + Key functions analyzed:     - **OnInitDialog()** – Initializes UI elements.     - **SaveCfg2IniFile()** – Saves detector settings to an INI file.     - **InitCtrlData()** – Loads settings from m\_fpd\_base.     - **Handles IP address validation** and **UI interactions with CIPAddressCtrl & CComboBox**. | The remaining two classes, which are around 3000 lines, will be studied this week. |
| IDE & Integration Setup | * Identified that Visual Code 2013/2010 is required for Visual C++ 2010/2013 Redistributable libraries. * Documented an **Integration Guide** for debugging but haven’t tested it yet. * Researched the installation method for **Visual Code 2013** | After studying all the code, I will start to try for integration. |
| Work Pair with Phang | * Received that will work pair with Phang regarding the CT-related function code. * I shared the updated code with the comment and my daily log with Phang to review the study output. | Trying to having a meeting with Phang for discussion, but need to according to Phang’s schedule. |