**Weekly Report**

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| **Name:** | Sky | **Team/Group:** | Imaging Cargo | **Date:** | 27/01/2025 – 31/01/2025 |

**Tasks & Progress**

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| **Tasks/Projects** | **Descriptions** | **Remarks** |
| CT Demo Code Study | * Studied the README.md files from the SDK to understand the required libraries, etc. * Checked the device’s dependencies installed on devices:   + **Visual C++ 2010 Redistributable** for msvcp100d.dll and msvcr100d.dll.   + **Visual C++ 2012 Redistributable** for msvcp120d.dll and msvcr120d.dll. * Installed OpenCV 3.4.1 on the device. * Studied the README.md to know all the class's functions in short. * Studied CDIgBinningType.h and its cpp and updated some comments from Chinese into English for easy understanding in future.   + OnInitDialog(): Initializes the dialog box, sets the icon, and performs additional setup.     - Loads the dialog's icon (m\_hIcon) using AfxGetApp()->LoadIcon().     - Sets the icon for both small and large versions of the dialog.     - Initializes a combo box (IDC\_COMBO\_TEMPLATE\_BINNING) and selects the first item by default.   + OnBnClickedOk(): Handles the OK button click to save the selected binning type.     - Retrieves the currently selected item in the combo box (IDC\_COMBO\_TEMPLATE\_BINNING).     - Validates the selection:       * If the selection is invalid (≤ 0 or > 3), m\_uBinningType is set to 1.       * Otherwise, m\_uBinningType is set to the selected index + 1.     - Closes the dialog box using CDialogEx::OnOK().   + DoDataExchange(CDataExchange\* pDX): Supports data exchange between UI controls and class members.   Next Steps:   1. Link the libraries into the project and try to build and debug the solution. 2. Study the remaining classes and update the comments if needed. | The tasks stated at next steps will be done by this week, and the code will be fully studied by this week. |