

**2023-2024**

**Student Name(s) : Koay Xian Cong**

**Project Title : AI in Healthcare**

**Supervisor(s) : Dr Hermawan Nugroho**

**Date of meeting : 3 Oct 2023 Length of meeting : 1 hour**

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| **Progress made since the last meeting** |
| **The HIRARC form is being filled in and submitted. Research has been done on the STM32MP157C discovery kit and determined the benefits of utilizing ARM Cortex-M based edge devices. Research has been done on Intel OpenVINO software but have yet to test the software. Brainstormed ideas that can be deployed into the edge device and set a main goal of developing this project which is leveraging AI and low energy edge computing for enhanced healthcare services. There are several specific ideas brainstormed but yet to decide on which to proceed. Researched on AI project that have been done by others on the STM32 board. Drafted project methodology for HIRARC application.** |

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| **Items discussed /planned for the week** |
| **Dr Hermawan passed me the STM32MP157F discovery kit together with a camera module. We discussed some application ideas for the use case in edge computing including healthcare industry as well as agricultural industry. I presented some of the past projects I had done. We concluded that some of the projects such as acne classification that I had done in the past are not that suitable to be used in edge computing since it is more towards software based and can be deployed into cloud computing which can be done by anyone. We also discussed some ideas in the agricultural field, but the technology may be too costly and difficult to be implemented for the industry. Hence, the plan for the week is to think about a suitable application that I want to do using the STM32MP156F discovery kit provided.** |

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| **Remarks (if any)** |
| **For the application, please explore with current research papers (2022-2023) and news from industry.** |

**Student’s signature:**



**Supervisor’s signature(s):** **Hermawan Nugroho Date: 9 October 2023**