

Computer Vision on Different Architectures

By John Pollak, John Tran, Kaung Nyi Naing and Nathan Kwan

ECE 4300 Spring 2025

What we plan to test

- Comparing Raspberry Pi 4 vs Raspberry Pi 5 (both 4GB RAM) using computer vision algorithms
 - Object Detection
- OpenCV project found online or following a tutorial
 - [danhdoan/computer-vision-raspberrypi: Sample projects for Computer Vision with Raspberry Pi and Movidius Neural Compute Stick](#)
 - Potential project we will be using



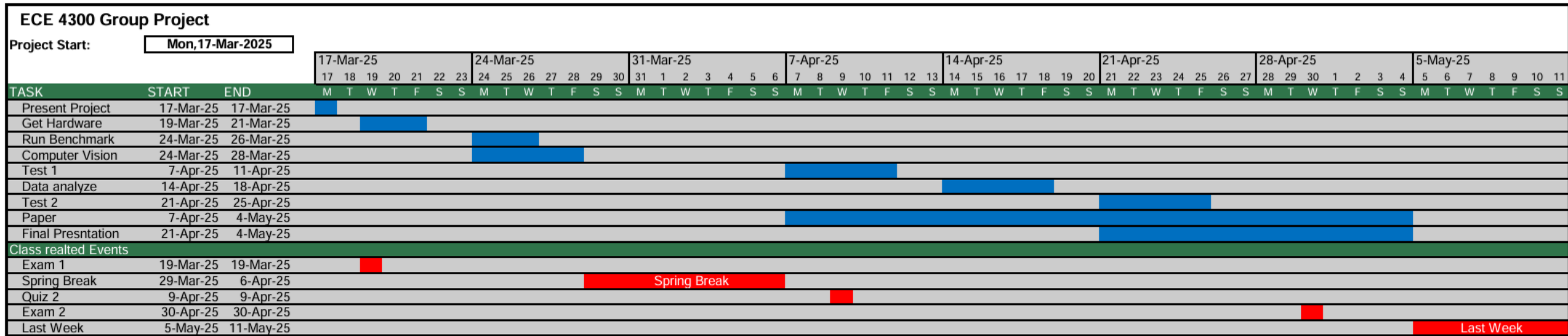
vs.



How we plan to test it

- Compare program execution times
- Comparing CPU Utilization & RAM Utilization
- Use a few different methods to test bench the hardware
 - Get a base line
- Stress test the hardware
 - Compare between test and running our code
- Utilize different methods and programs to get accurate data

Gantt Chart



[Gantt Chart.xlsx](#)