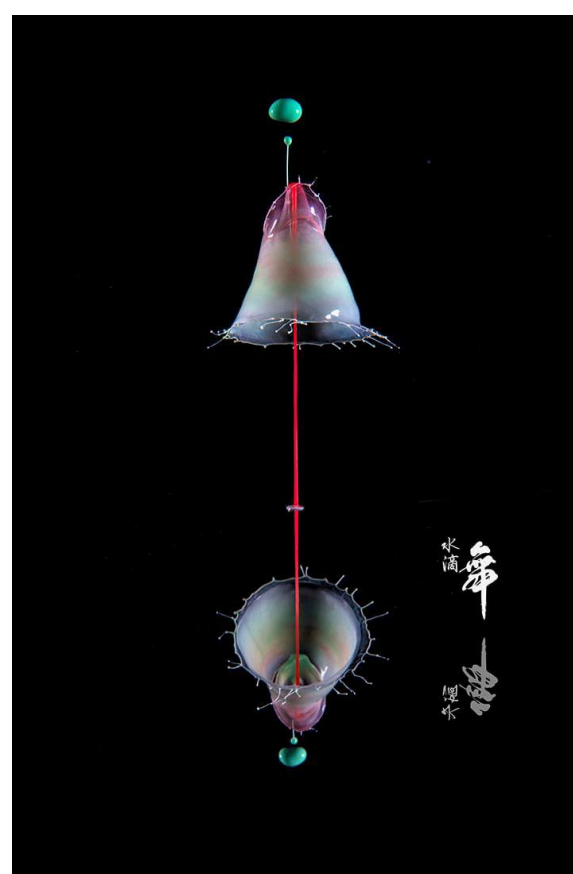
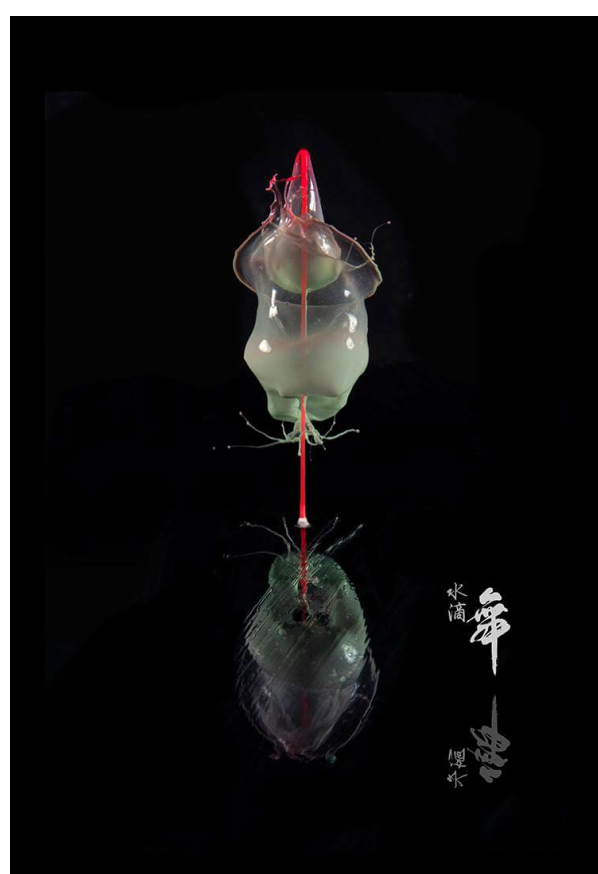


# Photographer's High-Speed Droplet System

## Water Droplet Photography

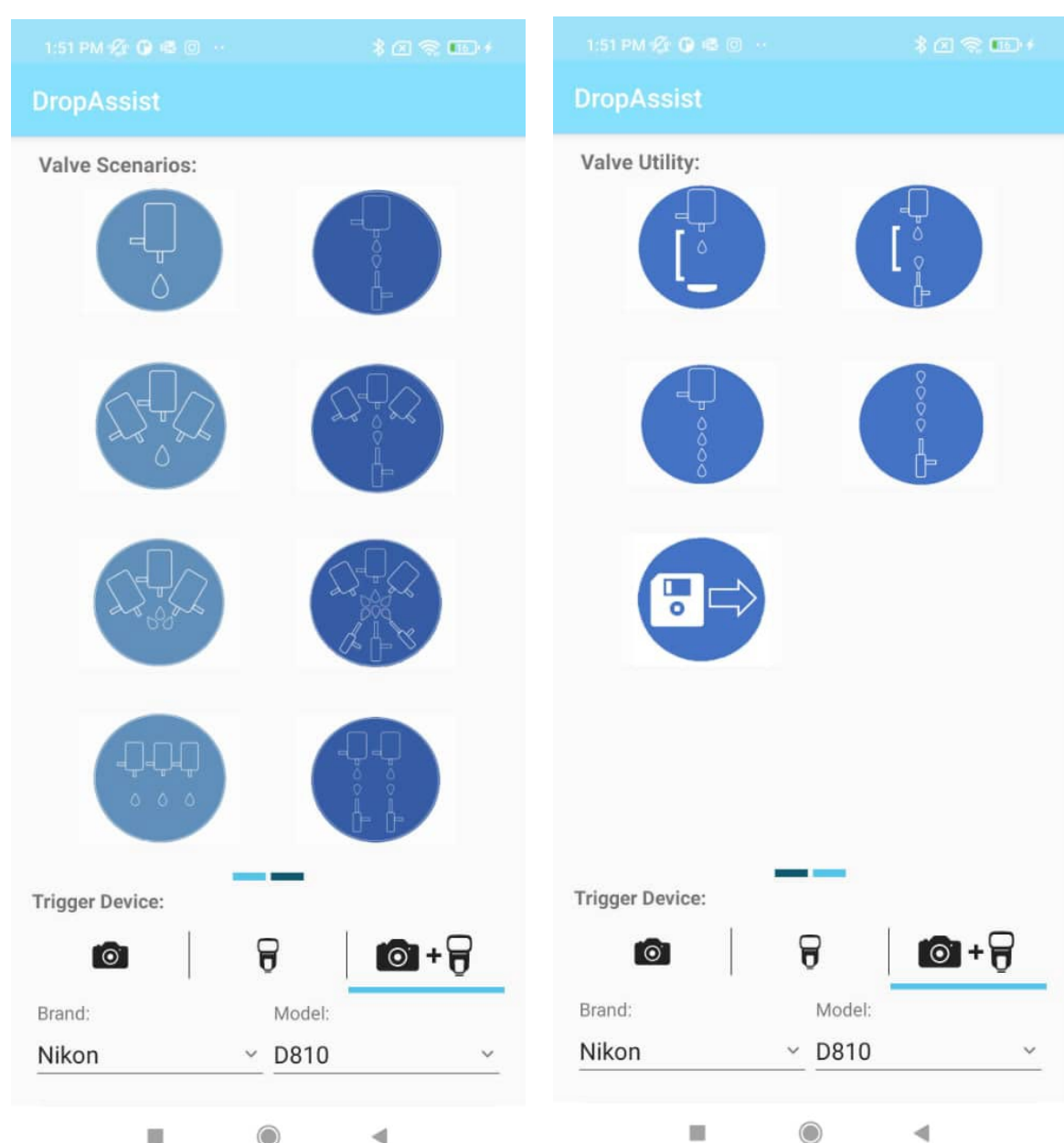
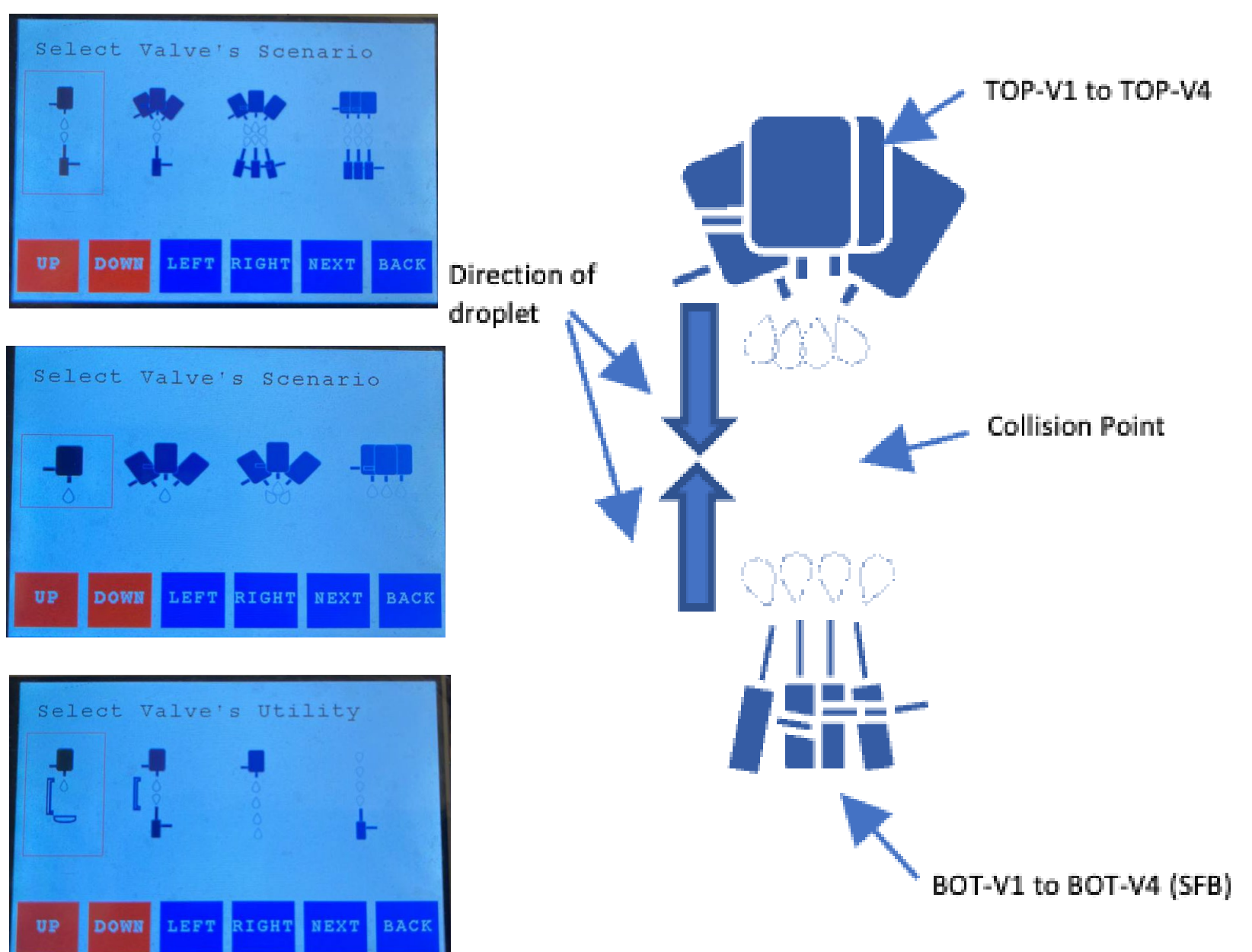
Student: Christopher Shan Naidu

Supervisor: A/P Chia Liang Tien



Photos taken by A/P Chia Liang Tien using Photographer's High-Speed Droplet System

**Project Objectives:** The objective of this project is to improve and extend the functionality of the high-speed water droplet's system. This project will improve the accuracy of the water droplet's release timing and implement more ways to control the solenoid valves that produce water droplets. It can also be controlled locally with the touch screen display or by the "DropAssist" Android Application.

The diagram illustrates the high-speed droplet system. It shows a central nozzle assembly with four solenoid valves labeled TOP-V1 to TOP-V4. A large blue arrow indicates the "Direction of droplet" release. A "Collision Point" is marked where the droplet path intersects with another path. Below the nozzle, four solenoid valves labeled BOT-V1 to BOT-V4 (SFB) are shown. The application interface on the left shows "Valve Scenarios" and "Valve Utility" options, along with a "Trigger Device" section set to a Nikon D810 camera.