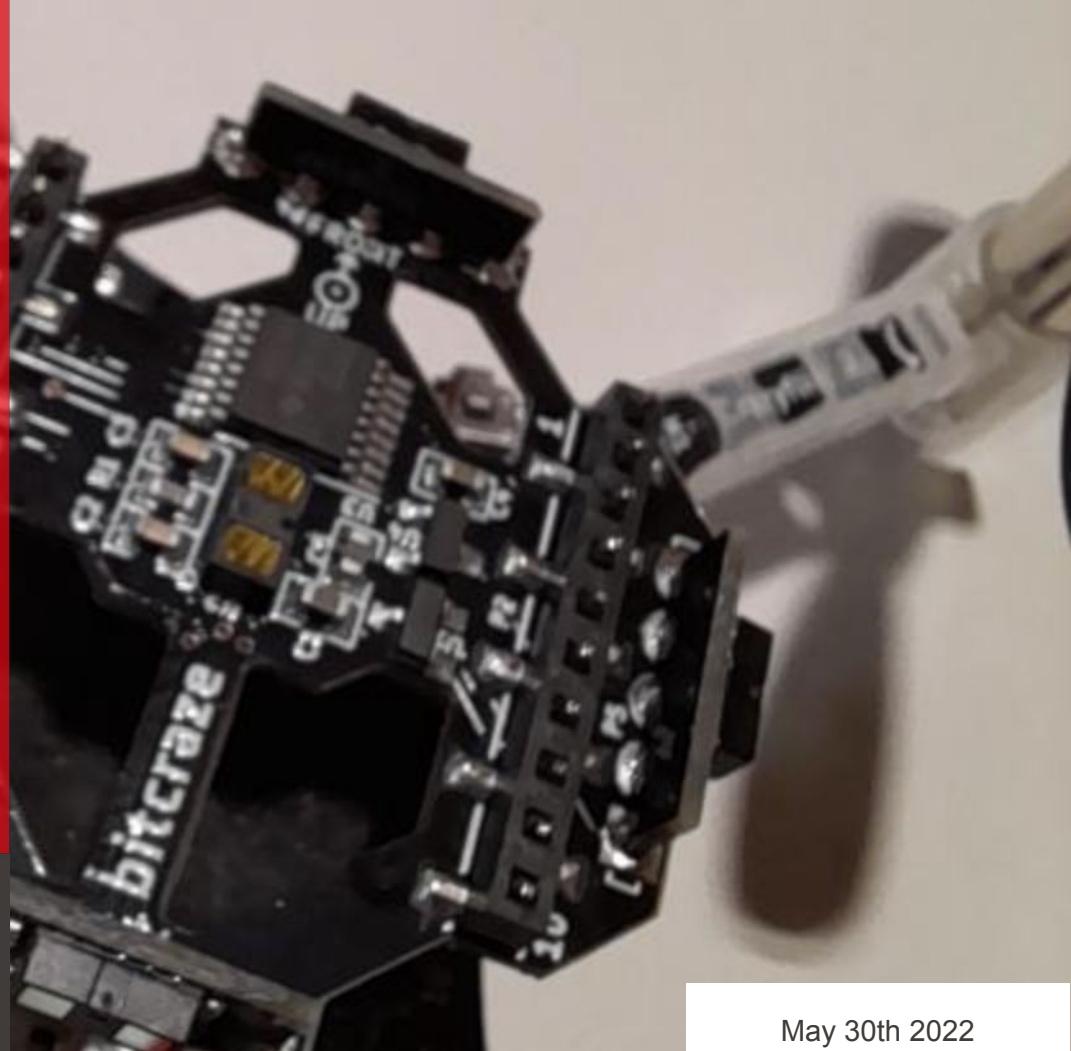


Aerial Robotics Project

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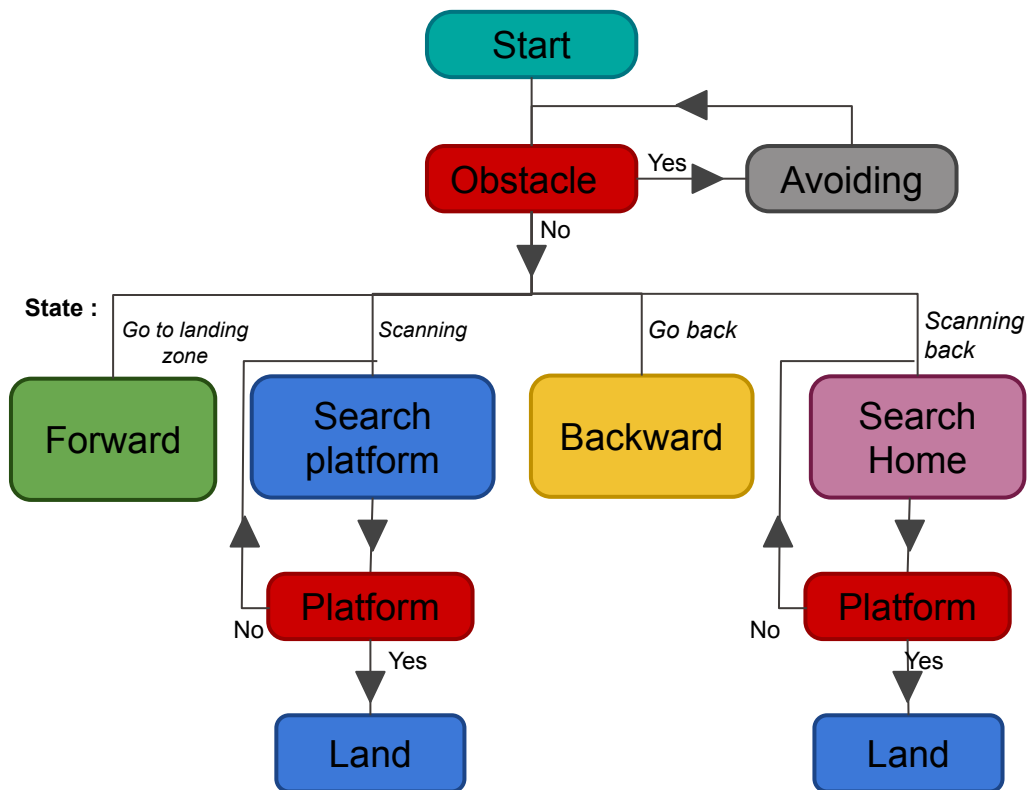


May 30th 2022



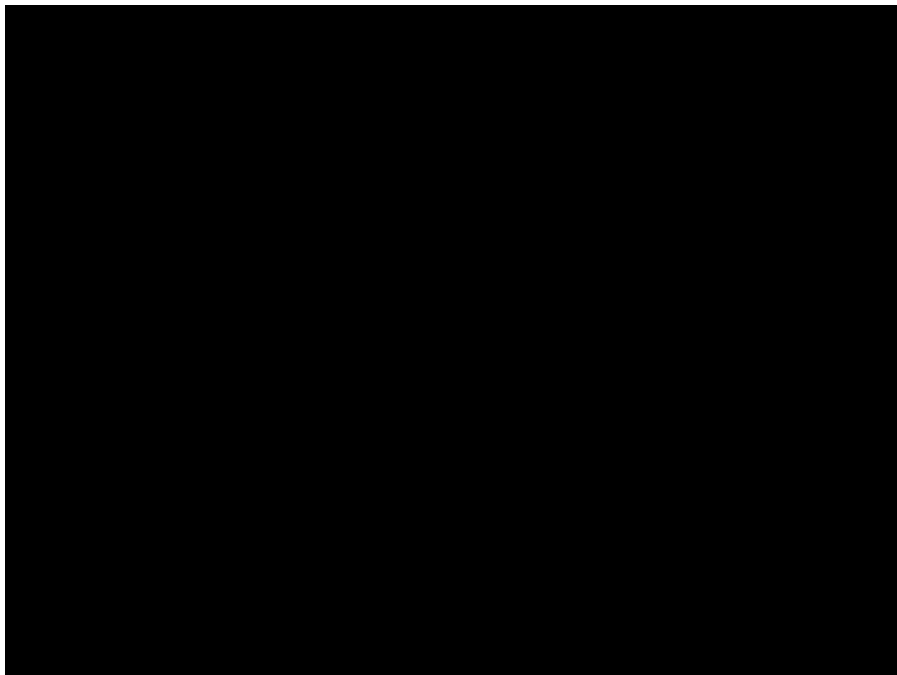
The experimental setup

- 2 platforms (height = 10[cm])
- Round cardboard tower obstacles
- 1 CrazyFly drone
- CO building floor pattern



Moving Strategy

- Velocity Control (motion commander lib)
- Basic obstacle avoidance with realignment
- Platform finding: detection of a z-speed shift



video x1

Results

- Problems (take off stability, hardware, ...)
- Solutions (motion control, ...)
- Improvement (ANN obstacle detection, ...)

17 propellers broken and 2 motors problems

Thank You

